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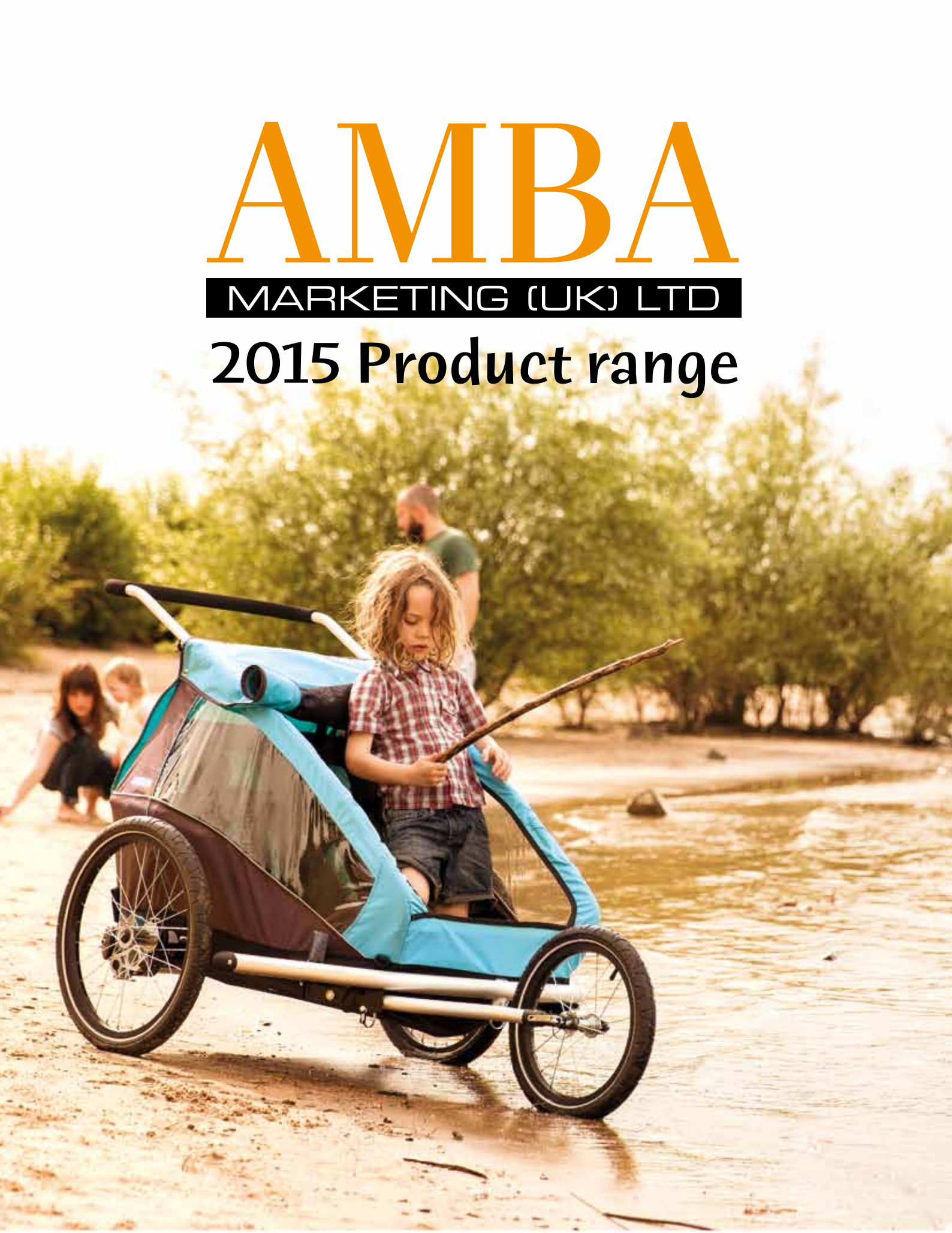
MARKETING (UK) LTD

2015 Product range



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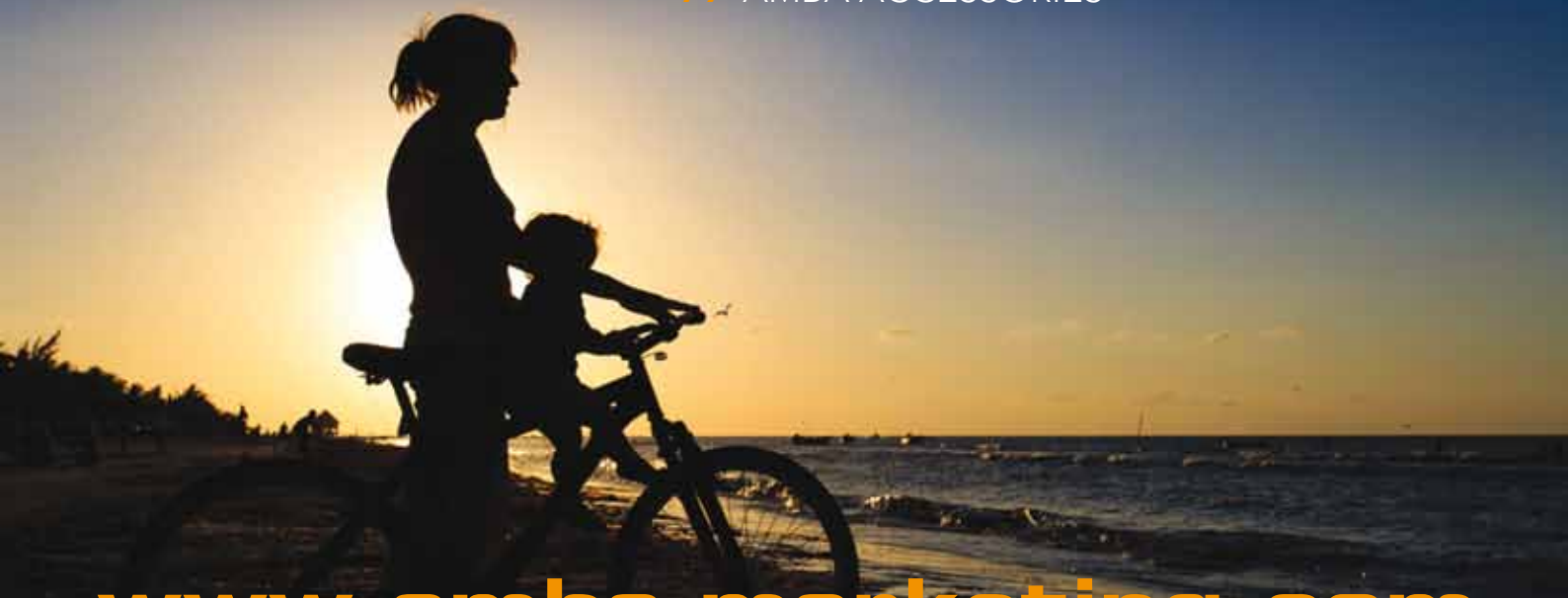

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Welcome to the 2015 Amba Marketing Catalogue

Packed full of wonderful family, commuting and touring brands and products we hope you will enjoy browsing through our 2015 catalogue. We have worked hard to source excellent quality yet affordable products to support your day to day life style, be it quality leisure time spent with your children, cost effective cycling to work or following that all important dreamed of a world tour or the holiday of your life time.

We have sampled the range of brands and products we offer in the catalogue but for the complete range and further information please visit our website or for the latest news join one of our social media sites – please see below for links

facebook https://www.facebook.com/InfoAtAmba?fref=ts3

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We're very excited to introduce three new brands for 2015, each with their own innovations and ranges.

Overboard – 100% waterproof bags & cases that combine both form and function. Made from high quality materials that provide waterproof protection at its best and great value for money.

Swisseye Sports Glasses – High quality glaze-able sports glasses with hypo-allergenic material and shatterproof polycarbonate lenses.

Happy Rainy Days – A bi-seasonal range of ladies fashion rainwear suitable for all activities. The range is waterproof, windproof and breathable with superb design features.

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Croozer Kid

Croozer offers excellent quality, intelligent transportation solutions for anyone who enjoys being out and about with their family - by bicycle, walking or strolling. The affordable multifunctional Croozer child transportation system focuses on safety, usability and clean functionality; with cleverly thought out design in every detail. Introduced in 2014 the Kid Plus range has a state of the art Sylomer® suspension system which offers the smoothest of rides, enhanced seating area and easy to use parking brake.

The Croozer flexibility makes travelling easy for you. Supplied with three kits you don't have to decide today what you will need tomorrow. It's quick and easy to change from bike trailer, to stroller to buggy mode with easy practical storage of the kits on the trailer itself. Croozer Kid is designed for multifunctional use day in day out. Croozer allows you to go to the nursery, the park, the shops, to get fit walking fast or to take a lovely bike ride with the family. Such versatility and flexibility is great. For 2015 the new easy to operate parking brake is great and for the children there are bigger windows, more visibility and a more spacious feel. The robust frame comes with a ten year warranty.

The Croozer Kid range is designed in Germany with passion, enthusiasm, dedication to quality and attention to detail. Croozer believes that good ideas for having a lovely time with the children does not need to cost a fortune; therefore a Croozer isn't full of worthless gadgets it's just elegantly designed with primary attention being given to clean functionality and safety for the children.

Croozer Kid comes as a single or a double seater to suit family requirements.
These questions may help you consider which model you need:

Q How many children do you have or may have?
A This will impact on your choice to have a single or a double model

Q Do you need space for a friend's child or teddy?
A Again this will impact on your choice to have a single or a double model

Q Do you need a baby sling or seat supporter?
A For babies approx 0 – 10 months a sling is required and for 10 – 18 months the seat supporter

Q Will the trailer fit in my car?
A This depends on the model ordered and the car – the answer is usually yes!

Q Is the trailer easy to fold when not in use?
A Yes!

Q Do I want a model with or without suspension?
A This depends on how you plan to use your Croozer and the terrain you will be travelling over

Croozer Kid - 3 in 1 Options

Both the standard and PLUS models are offered as 3 in 1 carriers. Many parents find that the Croozer Kid offers such versatility for different styles of trips that they do not need any other prams, buggies or strollers. Croozer is practical, easy to use and you do not need half the garage dedicated to lots of different transport options for your children!

In 2014 Croozer made some improvements to make handling even easier. There is quicker change over from kit to kit and an innovative quick fold system. It's easy to store the Croozer when not in use thanks to its compact dimensions when folded down. The coupling can be left on the bicycle frame even when the trailer is not in use. The height of the handle can be adjusted by turning it over. There's also an easy to operate parking brake that engages both wheels.

You will be amazed by how much space the Croozer Kid offers. Both for the passengers and for those essential items – bucket and spades for the beach, drinks holders, luxury teddy transportation and space for a change of clothes and nappies etc. There's even space for some shopping! Each child has their own seat in the Croozer. This is very important if the children are of different heights and or weights. Each individual seat offers lower back and bottom support from both sides whether your child is awake or asleep.

Included in the package are:

- Hitch and hitch arm for bicycle mode
- Handlebar
- Safety flag
- Buggy wheel for buggy mode
- Large front wheel with wheel arms for stroller mode
- Large rear wheels on the body of the trailer

Plus

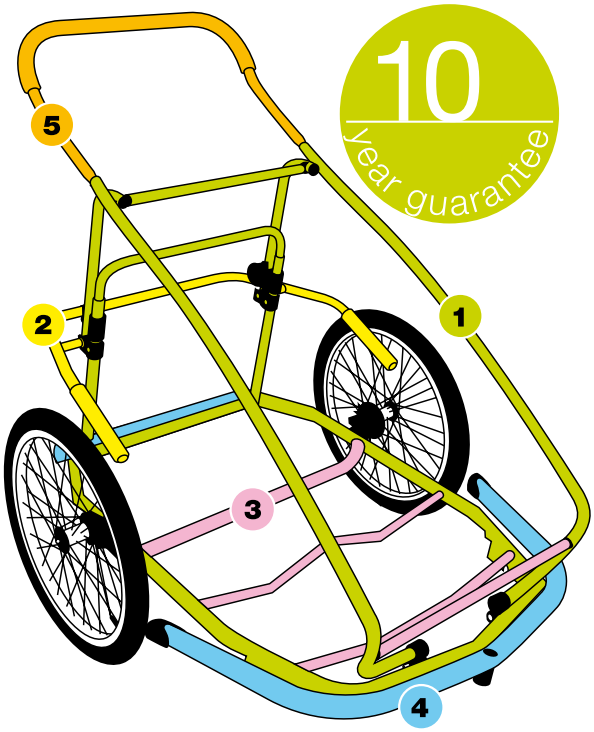
- The 2 in 1 cover for insect and weather protection
- Large windows for better views
- Flexible tow arm for easy manoeuvring
- In the Kid For 2 the seats are separate for each child
- Inner pockets on side for drinks and or small soft toy!

Croozer Protection

The bumper protects your Croozer from damage if you underestimate the width of your bicycle trailer including accidental rear end and side on contact. The tubular frame structure creates a robust protective space for your child. The internal frame provides additional protection for your child on either side and from the rear. The cross tubing ensures additional rigidity. The handlebar also acts as a roll over protective structure.

This means that all Croozers are supplied with a ten year warranty on the frame.

- **The tubular frame construction of the passenger compartment is extremely robust** 1
- **The internal frame provides additional protection for your child on either side and in the rear area** 2
- **Cross tubing ensures additional rigidity** 3
- **The bumpers provide protection against accidental rear end and side on contact** 4
- **The handlebar also acts as a roll over protective structure** 5
- **Croozer Kid is supplied with a 10 year warranty on the frame**



Croozers Kid1 & Kid2 PLUS

The engineering team at Croozer have worked with a range of experts in light weight construction, chassis tuning, human vibration and elastomeric foams to produce a suspension system for the Croozer Kid PLUS which is as effective for a single baby (10kg) as it is for two six year olds (45kg in the double Kid PLUS), without requiring any additional adjustments to allow for the difference in weight of the passengers.

The Croozer Kid PLUS chassis is fitted suspension providing 45mm of travel. This generous amount of travel ensures total comfort. The Sylomer® spring elements always retain dimensional stability and are not adversely affected by overloading of short duration, even when this is extremely excessive. They are also not affected by the weather, will not wear and do not contain any toxic substances. Best of all no maintenance or servicing is required!

Sylomer® not only has excellent suspension characteristics, it also has a range of outstanding properties. For example running over a stretch of uneven ground will not cause the bicycle trailer to vibrate, instead the built in attenuation causes it to settle immediately into its original position. This enhances the comfort of your child and improves the road holding characteristics of the Croozer PLUS.

How does Sylomer® work?

The special material property of the Sylomer® suspension and damping elements is the manner in which their suspension behaviour progresses as the load is increased. When the trailer is lightly laden the Sylomer® spring element is soft and responds sensitively. When the trailer is fully laden the performance part compresses, becoming harder as a result. Even in the case of overloading the Sylomer® spring element retains its dimensional stability and elasticity. Bottoming out of the suspension cannot happen. Weight related adjustment is not needed as the hardness of the Sylomer® spring element adjusts of its own accord to the load in question

Croozer Kid 1 & Kid 2 PLUS

CTS237 Kid For 1 – Sky Blue & Brown
CTS238 Kid For 2 – Sky Blue & Brown

Kid 2 Plus Folded

Kid 2 Plus Front View

Kid 2 Plus In Bike Mode

Kid 1 Plus In Buggy Mode

Kid 1 Plus In Stroller Mode

Croozer Kid Plus Specification

Specification	Croozer Kid for 1 PLUS	Croozer Kid for 2 PLUS
Version	Single seater	Two seater
Maximum shoulder width	60cm	70cm
Leg room	58cm	58cm
Headroom (seat centre to upper frame)	65cm	65cm
L x W x H (excluding handlebar)	113 x 69 x 87cm	113 x 90 x 87cm
L x W x H (folded, excluding handlebar and wheels)	104.5 x 69 x 27.5cm	104.5 x 86.5 x 27.5cm
Maximum handlebar height	112cm	112cm
Minimum handlebar height	100cm	100cm
Weight (base with handle)	11.4kg	13.4kg
Maximum cargo load	30kg	45kg
Wheels	20" spoked wheels	20" spoked wheels
Colour	Sky Blue/Brown	Sky Blue /Brown

Note Croozer PLUS trailers have suspension

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Croozer Kid1 & Kid2 Standard

Kid 2 Standard Folded

Kid 1 Standard In Bike Mode

Kid 2 Standard In Buggy Mode

Croozer Kid Standard Specification

Specification	Croozer Kid for 1 Standard	Croozer Kid for 2 Standard
Version	Single seater	Two seater
Maximum shoulder width	55cm	70cm
Leg room	58cm	58cm
Headroom (seat centre to upper frame)	65cm	65cm
L x W x H (excluding handlebar)	113 x 69 x 84cm	113 x 90 x 84cm
L x W x H (folded, excluding handlebar and wheels)	104.5 x 69 x 27.5cm	104.5 x 86.5 x 27.5cm
Maximum handlebar height	107cm	107cm
Minimum handlebar height	95cm	95cm
Weight (base with handle)	12.1kg	13.9kg
Maximum cargo load	30kg	45kg
Wheels	20" spoked wheels	20" spoked wheels
Colour	Peppermint Green / Grey	Peppermint Green / Grey

Note Croozer Standard trailers do not have suspension

Croozer Kid 1 & Kid 2 Standard

CTS235 – Kid For 1 Peppermint Green & Grey
CTS236 – Kid For 2 Peppermint Green & Grey

Kid 2 Standard In Stroller Mode

Croozer Kids are great even for tiny babies

We are often asked how old does baby have to be to enjoy their Croozer Kid. Of course this depends on the baby's physical development as well as which mode the Croozer Kid is being used in. Here is an indication. There are more details on our website.

Baby on the road

In most cases the baby can be taken out and about from just a few weeks after birth. Croozer offers a range of seating systems as well as accessories ranging from winter bunting bags to sun covers!

For babies up to ten months

Is your baby still at the stage where it has to lie on its back, but still wants to be able to look out and about? If so the Croozer baby sling is the answer.

- The bungee system tensions the backrest to give full support to your baby in a seated/lying position
- The strap reinforced side walls ensure your baby is supported and protected
- The Croozer can be easily folded with the baby sling in situ
- The Croozer baby sling is as comfortable as a hammock and as safe as a car seat

For toddlers ten to eighteen months

If your child is still at the pre toddler stage, but already able to sit up by itself then the Croozer padded baby seat supporter provides additional support.

- The padded head rest support the nape of the neck
- The lower back support supports the spine – at this age the muscles still tend to be underdeveloped

Croozer Kid Accessories

Croozer offer a range of complimentary accessories designed to enhance the Kid trailer. A sling is needed for babies up to ten months and the seat supporter for babies ten – eighteen months. These must be used during bike mode and are strongly recommended for stroller or buggy mode. The trailer can folded away with them in situ. For further details please contact us.

Integral Baby Sling – For Standard models

CTS234

This purpose built sling is for 2010 onwards models within the Croozer Kid range.
The hammock like design helps provide a smooth ride. The baby is reclined and still able to look around and watch the world go by.

Integral Baby Sling – For PLUS models

CTS239

Designed to be used with the 2014 Kid PLUS models onwards the baby sling provides integral head and spinal support whilst baby seats/lies down

Baby Seat Supporter – For Standard and PLUS Kid models

CTS160

Providing extra postural support for toddlers who can already sit up but whose back muscles are not yet fully developed. The padded hip and head rest provide support and comfort during naps. The height can be adjusted as the toddler grows.

Winter Bunting Bag

CTS132 Baby
CTS133 Toddler

Winter weight zip up front bag with fleece liner to keep babies warm during the colder months. The sleeping bag straps into the trailer so that baby is snuggly and warm. Available in two sizes.

Rain Cover

CTS163 – Kid For 1
CTS164 – Kid For 2

For really extreme rain conditions or for longer journeys. Stretch over the weather cover to help prevent water ingress. Folds away easily when not required.

Standard Models
CTS216 Kid For 1
CTS138 Kid For 2
Peppermint Green

PLUS Models
CTS217 Kid For 1
CTS218 Kid For 2
Sky Blue

Sun Cover

For those sunny days or at the end of the day when the sun is low in the sky. Easy to attach and adjust. Velcro into place between the frame tubes.

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Handlebar Console

Made to fit the single or double model. Velcros into place on the handlebar. The centre pocket has a zip and the side pockets are deep enough for drinks bottles. Store your smart phone, keys and wallet safely in the zipped compartment

Standard Model

CTS 219 Kid For 1

CTS 159A Kid For 2 – Peppermint Green

Foot Mat

CTS195

Helps to keep the foot well of the carrier clean on wet muddy days. Great for the school run and daily use.

PLUS Model

CTS 220 Kid For 1

CTS 221 Kid For 2– Sky Blue

Axel Hitch

CTS95

Spare hitch. Leave in situ on a second bike... this saves lots of time having to transfer the axle from bike to bike.

Replacement Flag

CTS170

Just in case you misplace the flag supplied with your trailer.

One Size Fits All Storage Cover

CTS222

Protect your Croozer from the elements with this waterproof storage bag. Folds away easily when not in use.

Guarantees & safety

Croozer fully commits to children's safety from concept to design to manufacturing of the Kid trailer. Since 2003 thousands of children have been out and about in their trailers and your children will be safe too. The Croozer safety concept covers many important features including:

- **The safety passenger cell for optimal passenger protection**
- **The low centre of gravity for good handling and high tipping stability**
- **Five point safety harness**
- **Reflective materials for height and width marking**
- **Tested and patented components**
- **TUV certified**
- **EN1888 compliant**
- **Engineered in Germany**
- **The Croozer safety passenger cell**

The robust tubular frame of the Croozer Kid easily passes any long term test under everyday conditions. Therefore a ten year warranty is offered on the frame.

Croozer Pet

Redesigned and upgraded for 2015 the Croozer Pet can now be used in two ways. Towed behind your bicycle to get you to your destination quickly and easily or as a stroller with a neat push handlebar and small front wheel.

With the Croozer Pet cyclists and their pets, dogs, cats etc can enjoy touring even more! For example your dog can run with you as long as it likes and can then rest in the comfort of the trailer. The Croozer Pet is also a good solution for dogs which would be at risk when running on a lead next to the bicycle. The ventilated trailer always provides its passengers with a clear view, even when it is fully closed. Access is easy via the large zipped flap at the rear. You can open the outlook panel at the front of the trailer to allow your pet to enjoy the feel of the slipstream and see the view ahead. The reinforced side panels protect your pet when leaning against the sides and the fixed mesh fabric is air permeable and tightly attached.

There is plenty of space inside and your pet can be kept secure inside the trailer by attaching the lead to one of the rings attached to the floor pan. The mat has a cover which can be changed and washed. When in stroller mode the front swivel wheel allows for easy manoeuvring whilst you push the trailer along. You can even use the trailer as a transportation box in your car by removing the hitch arm and wheels.

You can fold the trailer away in a matter of seconds with the wheels, hitch arm and push arm fitting into the solid floor pan. This makes the Croozer Pet compact and easy to transport or store when not in use. The solid plastic floor provides a secure supporting surface for your pet. It is stable and fully resistant to dirt, damp and scratches and it's easy to wash out because the water will run out of the drainage hole in the floor. There are pockets and storage compartments in the Croozer Pet which provide ample storage space.

CTS215 Croozer Pet

Croozer Cargo

Redesigned and enhanced for 2015 the Croozer Cargo offers so much more! Cleverly thought out in every detail, practical and safe to use with a marvellously clean and functional design.

Incorporating both bike trailer and hand cart the Croozer cargo is really versatile. Cycle into town, switch the hitch arm for the wheel and mount the handlebar in just a few moments. No tools are required so its very easy to do. There's plenty of space inside the robustly built Cargo whether you're cycling with it or using it for a quick shop or a picnic at the park. You can even use the Cargo as a transportation box in your car. Simply remove hitch arm, handlebar and wheels. The integrated handles in the floor pan make it easy to carry your cargo and to keep it secure.

Inside the Cargo are two side pockets and attachment straps which are great for helping secure whatever you need to transport. The Cargo has a solid floor pan which is stable, smooth and resistant to dirt, damp and scratches. Once loaded you can close the weather cover to keep out the rain and prying eyes. The robust chassis is made of square section aluminium tubing and this acts as a secure and reliable support for your load. When not in use the Cargo folds away easily and compactly.

CTS214 Croozer Cargo
CTS223 Rain Cover For Croozer Cargo (not pictured)

Specifications:

L x W x H (minus hitch arm & handlebar) 84 x 69 x 66 cm

L x W x H (folded minus wheels) 84 x 69 x 17 cm

Internal dimensions L x W x H 55 x 45 x 40 cm

Cargo floor space L x W x H 61.5 x 43.5 7.5 cm

Handlebar height Flexible

Cargo platform (L x W x H) 77 x 50 x 34 cm

Load capacity 40kg

Trailer weight 9.8kg

Wheels 16" spoked wheels

Colour Sunset Orange & Grey

BOB Trailers

Bob have been making their single wheel trailers for over ten years and they are known as the trailers to take on expedition. There can be very few countries in the world where a BOB trailer has not been. The single wheel design allows the trailer to lean with the bike and go through narrow gaps, so rocky off road sections are well within its capabilities. The fixing system and design are such that the trailer feels part of the bike rather than a separate entity.

Two models are available, both made from Chro-moly steel with a weight capacity of 32kg. The Bob Yak is the classic non suspended design, the suspended Ibex has 3" of travel.

Each model is available with or without the waterproof BOB bag and for either 26" or 28" wheel. The 28" model will also fit 29er bikes without mudguards. It can also be used in conjunction with 26" wheeled bicycles; it moves the centre of gravity very slightly and loading needs to be adjusted accordingly.

Please refer to the user manual for full advice and information before using your trailer.

CTS105A	*BOB YAK with Dry Sak for 28" wheels*
CTS106	*BOB YAK with Dry Sak for 26" wheels*
CTS107	*BOB YAK without Dry Sak for 28" wheels*
CTS108	*BOB YAK without Dry Sak for 26" wheels*
CTS109	*BOB IBEX with Dry Sak for 28" wheels*
CTS110	*BOB IBEX with Dry Sak for 26" wheels*
CTS111	*BOB IBEX without Dry Sak for 28" wheels*
CTS114	*BOB IBEX without Dry Sak for 26" wheels*

Spare Parts & Accessories

CTS85 Quick release up to 140mm OLD (supplied with all models)
CTS86 Quick release up to 145mm OLD required for some tandems
CTS87 Quick release up to 160mm OLD required for SANTANA tandems
CTS88 BOB wheel nuts for M10 X 1 axles
CTS89 BOB wheel nuts for Sachs/Sturmey hub gears
CTS90 BOB wheel nuts for 3/8 X 26 Shimano Nexus
CTS91 BOB wheel nuts for 3/8 X 24 axles
CTS92 BOB Dry SAK
CTS112 BOB 'R' pins. 1 pair
CTS116 BOB Pin and Lanyard. 1 pair
CTS175 BOB trailer flag

Many more spare parts are available to order, please see the Amba website for details.

Welcome to Weehoo

Let The Adventure Begin!

Inspired and designed in America the Weehoo range offers a unique interactive approach to shared family riding. Safe, engaging and fun; the Weehoo iGo Pro, iGo 2 and iGo Venture pedal trailers offer a balanced, streamlined design with many great features. Enhanced for 2015 all models offer a fresh approach to family mobility allowing your children to eat, sleep, pedal or just sit back and enjoy the ride.

iGo Pro, iGo 2 & iGo Venture

Weehoo offers three models, the iGo Pro for one child, the iGo 2 for two children and the iGo Venture for one child plus cargo. For 2015 models the Weehoos have a newly designed main frame, seat back and base, a new seat which allows for tool free adjustment, new pedal straps, safety pins and an enhanced curvature of the tow arm. Note the ample storage options in the two pannier bags and seat and comfort handgrips. For safety the sprocket and chain are enclosed to keep little fingers grease free and away from harm. Designed for children from ages two to nine to ride their 'own' bike whilst safe in your care.

iGo Pro

Keep a hitch installed on both Mum and Dad's bicycles for convenience

iGo 2

iGo Venture

Key Features

- Friendly safe fun interactive riding for all the family
- Children can enjoy hands free riding for hours
- Newly designed main frame, seat back and base, new 'fixie' style pedal straps and safety pins
- Redesigned tow arm for better clearance over rear racks and larger wheel sizes
- Tool free adjustment of seat position for children aged from two to nine
- Revised slightly reclined seat angle for better comfort on longer journeys
- Increased stability due to lower seat height
- Removable push bar easily detaches for travel and storage
- Maximum individual child weight 65lbs or 29kg for all models
- Maximum total child weight for iGo 2 100lbs or 45kg
- Adjustable three point harness with chest buckle keeps little ones safe and secure
- Storage pockets in seat and over rear wheel
- The sprocket and chain are enclosed to keep little fingers grease free and away from harm
- Self aligning hitch supplied with five shim sizes to suit
- Additional hitches are available
- Mono stay design with single sided rear frame allows for easy changing of flat tyres without having to remove the wheel
- Can be converted into a cargo trailer when children grows out of their Weehoo

Installation For All Weehoos: Assembly of the Weehoo trailers is required. Once assembled, the trailer easily attaches to and detaches from the bicycle for travel and storage. The weld free steel hitch connects the pedal trailer to the bicycle seat post for secure handling. Why not keep a hitch installed on both Mum and Dad's bicycles for convenience.

Compatibility: The Weehoo trailers work with standard bicycles with seat post diameters of: 25.4, 26.8, 27.2, 30.9 and 31.6mm. Full fitting suggestions and assembly please see the videos on our website

Accessories: There is a comprehensive range of accessories and spares for the Weehoo trailers. Please see the website for full details.

Specifications For iGo Pro, iGo2 and iGo Venture

	iGo Pro	iGo2	iGo Venture
Length	51 inches or 129 cm	62 inches or 157 cm	51 inches or 129 cm
Width	13 inches or 33 cm	13 inches or 33 cm	13 inches or 33 cm
Height	34 inches or 86 cm	34 inches or 86 cm	34 inches or 86 cm
Weight	27 lbs or 12 kg	33 lbs or 15 kg	30 lbs or 13 kg
Max Load Capacity	65 lbs or 29 kg	100 lbs or 45 kg	65 lbs or 29 kg
Max Child Weight	Max per child 65 lbs or 29 kg	Max per child 65 lbs or 29 kg	Max per child 65 lbs or 29 kg
Approx Age	2 – 9 years	2 – 9 years	2 – 9 years
Approx Height	3' 2"- 4'3" or 96 – 132 cm	3' 2"- 4'3" or 96 – 132 cm	3' 2"- 4'3" or 96 – 132 cm
Code	***WH4***	***WH5***	***WH6***

WH1 iGo Pro
WH2 iGO 2
WH3 iGo Venture

Busch+Müller 'Made In Germany'

A third generation German family business Busch+Müller are renowned worldwide for their dynamo lighting solutions. Busch+Müller's ethos of quality and innovation ensures their presence at the cutting edge of technological development and design. The company sits on the European lighting standards board. Right from the beginning concept of a new product everything is done in house at Busch+Müller; from concept and design through to the technology and manufacturing. The staff at Busch+Müller pride themselves on producing first class products thanks to excellent performance and perfect workmanship. All the ground breaking innovations such as standlight, IQ light technology, daytime running lights and much more originates at Busch+Müller.

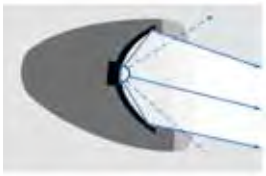
Innovations

IQ-Tec Premium – the light revolution for bicycles

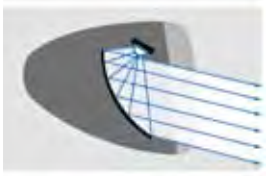
IQ-Tec premium is the central technology for current front Busch+Müller lights. At its core is the revolutionary idea not to have the LED light source in the centre of the reflector. The complete reflective surface is used to focus and guide the light. Busch+Müller developed a special reflector – if you look into the reflector one only sees the metalised surface. When the light is turned on what takes its place is 'nothing but light'.

IQ2 Technology

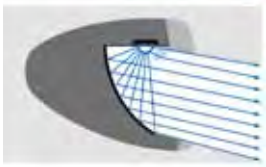
Launched in 2013 the IQ2 technology utilised in the LUXOS front lights raises the standards yet again. The Luxos U has 70 lux light output and the IXON Core has 50 lux. This means that the quality of the light that you see with is dramatically enhanced. The depth, intensity and purity of the 'white' light is impressive and the actual light field is twice as wide as previous LED headlights. What does this mean for the rider? Basically you can see more clearly over a bigger, wider area than ever before. IQ2 has been designed with a new light and reflector.



Conventional technology. This is how headlights have functioned for decades: A light source sits in the centre of the reflector. The result: stray light and loss of efficiency.



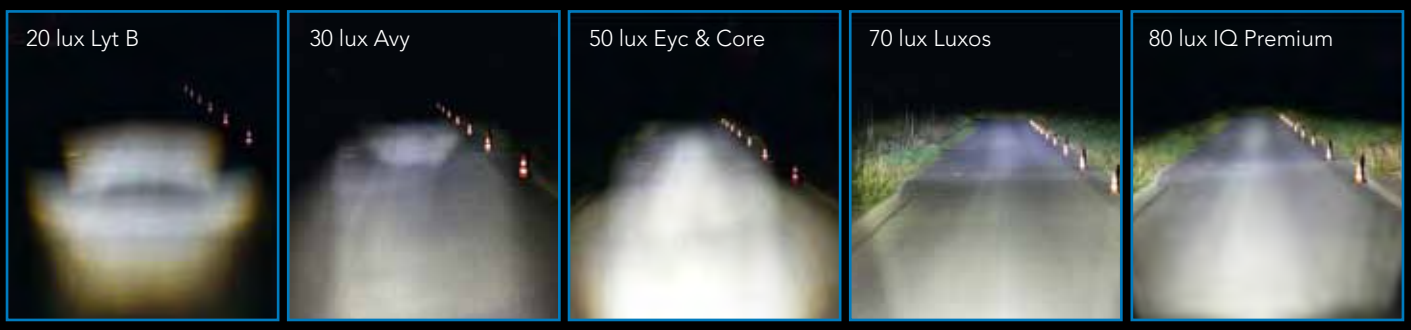
IQ technology. Nothing but light. The light revolution from Busch & Müller: A special reflector with an optimised cooling system uses one high output LED as an indirect light source. No LED is to be seen in the centre of the reflector. This creates a field of light that is extremely homogenous, which can be twice as wide as the one created by conventional technology. Lighting effects can be aligned much more precisely – for example the area directly in front of the bicycle can be lit



IQ2 technology. The evolution. The IQ technology of the next generation: position of the light source and reflector, LED and cooling have been optimised drastically. Using a prism, the light yield and efficiency are raised decisively. Additional LEDs combined with an electronic control system make "dynamic light" possible, perfectly adjusted to the individual riding situation. A dynamo powered headlight thus creates a field of light, larger by a wide margin and more homogenous than ever. The world's first headlight with IQ2 technology is called LUXOS

How to recognise a good headlight

Busch & Müller states the light output of headlights using the unit Lux. A Lux value provides the illumination level in relation to its distance from the light source and to the area that is lit. It is exactly this relation which is a deciding factor when considering a headlight, because it states the amount of light on the road. The value Lumen states how much light exits the headlight at the light source and it cannot be told whether that light shines onto the road or is lost as stray light. However, even Lux is an incomplete value when talking about the output of a headlight. Also important is the quality of the light field which is created on the road. Its width, depth, homogeneity as well as its free light/dark boundary directly affects how it is perceived by the observing eye. All those qualities cannot be stated using measured data. This means that only when looking at the light field as a whole can the true quality of the headlight be appraised.



Licht24

Licht24 is Busch+Müller's innovate daytime running light. The Licht24 has two modes; day and night. These provide optimal light output, adjusting to current lighting situations. A light/dark sensor automatically switches between day and night mode. With the day time running light in use the signalling LEDs shine maximally bright while the riding light directed at the road is dimmed. In the night mode the riding light shines at full capacity and the signalling LEDs are dimmed. The 'regular' riding light is focused on the road and limited by its clearly defined light/dark boundary to prevent glaring oncoming traffic.

The functions

There are two modes: day and night. They provide optimal light output, adjusting to current lighting situations. A light/dark sensor automatically switches between day and night mode.

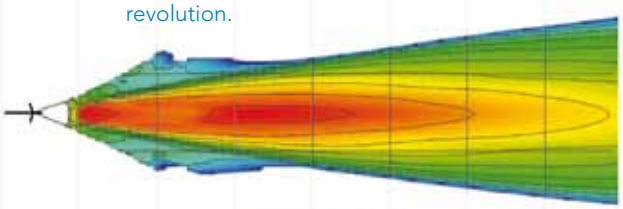
Regular headlight without daytime running light.

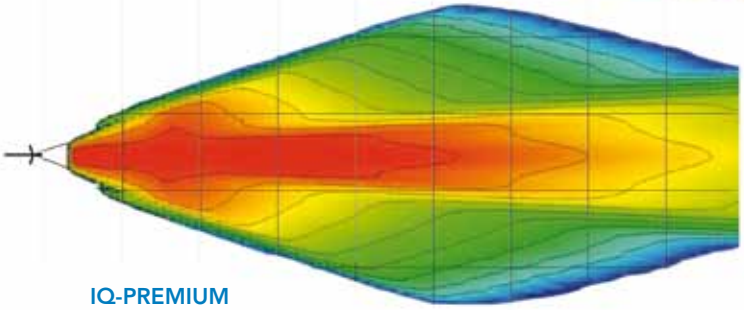
LICHT24 headlight in day mode. For better being seen by other traffic participants. The daytime running light (signalling LEDs) shines maximally bright, the riding light directed at the road is dimmed. Also approved for night time use (by German road traffic regulations).

LICHT24 headlight in night mode. For a maximum lighting of the road. The riding light shines at full capacity (30/40/70/90 Lux). The signalling LEDs are dimmed.

Conventional headlight
No IQ technology. Without light at close range. 15 Lux. Approved by German road traffic regulations.

IQ-TEC headlight
With light at close range. The field of light is significantly larger and brighter than was previously deemed possible. 60 Lux! The light revolution.





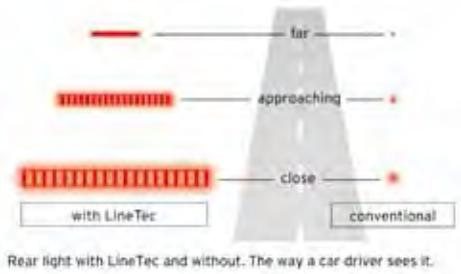
IQ-PREMIUM
The Lux values again rise by 100 per cent. The extensive light field with light at close range is twice as wide as IQ-TEC.
A very homogenous and bright "light carpet", directly in front of the bicycle. The road is bathed in light, wide as never before.

Light At Close Range

For a secure ride it is important to be able to see the road directly in front of the bicycle. Bumps or potholes in the road can be seen better if this area is lit and can be circumnavigated by short and intuitive steering. During darkness this is only possible if the area between one and four metres in front of the bicycle is lit brightly and homogenously. Subjectively the need for light at close range is higher the slower one is riding, because a person's balance can more easily be influenced by obstacles. The light out put is specially directed into the area just ahead of the bicycle and this is called the 'light at close range'.

LineTec® – Light strip for more safety

LineTec is a light technology featuring a special lens system. The punctual light of one high power LED is spread up to become a wide strip of light, shining homogenously. Why is that important? In the past if one approached a bicycle at night from behind, one could only see a single point of light emitting from the rear light and the distance could only be estimated inadequately. To accurately estimate the distance, the human eye requires a spatial relation – especially in the 'spaceless' dark. A rear light sending out a LineTec light strip emits 'spatial light'. This is why other traffic participants can estimate the distance much better and more quickly.



Rear light with LineTec and without. The way a car driver sees it.

BrakeTec® – The brake light function for bicycles – how it works

As a matter of course motorised vehicles signal a brake application to following traffic participants with a red, brightly shining light. Such a 'brake light function' is now available for bicycles as well. The new BrakeTec technology is integrated into the rear light. However, no connection to the brakes has to be established. Simply exchange the existing rear light for a BrakeTec rear light. The new function is approved by German road traffic regulations.

How does it work? Provided that the dynamo lighting system is turned on a processor inside the rear light analyses signals from the dynamo. If the velocity decreases significantly, the processor registers the deceleration and the rear light pulsates very brightly and noticably. The warning function of BrakeTec harmonises ideally in connection with LineTec so that a wide strip lights up. BrakeTec is an innovation by Busch+Müller.

Lighting Dynamo Front Lights

Lumotec LUXOS IQ2

Aluminium cooling element, glossy piano lacquer.

Integrated into the "forehead" with reflectors of their own. Additional LEDs for panorama light at close range and LICHT24.

Hidden inside the "head", more efficient than ever: the IQ2 LED technology.

BML98 – Lumotec Luxos U IQ2

The first Lumotec with IQ2 technology. With 70 Lux output with the light field twice as wide as previous LED front lights. This means that the light output covers an area that is several times larger than possible before which is maximally homogenous in quality. 'So wide, so far, so pristinely bright'. IQ2 technology brings a new intensity and quality to the light output which reaches beyond the definition of how bright a light is. It's about the 'whiteness' of the light and the quality of efficient ground 'cover'.

Panorama Light Luxos has panorama light at close range ie the light field is excellent not only in front of the bicycle but also to its side and beyond the edge of the road.

Flood Light It also has a flood light with 90 Lux output which is ideal for navigating tricky sections of riding. This is activated by the push button which in day time is a flashing headlight and during darkness while stationary it is a full light.

USB Charging Option The USB socket is integrated into the handlebar push button. USB devices such as mobile phones, GPS, MP3 players etc can be charged. An integrated lithium cache battery supplies constant voltage.

Integrated Lithium Cache Battery This additional energy storage unit is used for peaks of demand as well as charging. It recharges continually during cycling and has a LED status indicator.

Licht24 Daytime Running Light Consists of signalling LEDs shining brightly forward. An automatic sensor switch swaps automatically between day and night mode.

Standlight The standlight is automatic. Special LEDs are directed so that they are perceived by other traffic participants. Can be switched off via the push button.

Rear Light Monitoring A control LED inside the head light continually shows whether or not a connected rear light functions properly.

Waterproof cable guiding. If the USB cable is disconnected, the "open" cable end is sealed with a rubber cap (included).
To headlight
Handlebar push button with control LEDs. Controls all light features at the push of a button.
USB socket

Lumotec LUXOS B

The Luxos B is the basic version of the light with IQ2 technology, Licht24, automatic sensor and standlight.

BML100 Lumotec Luxos B

LUMOTEC IQ Cyo®

LICHT24

Lumotec IQ Cyo Premium

A compact and stylish front dynamo powered headlight from Busch & Müller. The 80 lux Cyo Premium is compact, elegant and dynamic. The impressive IQ technology which is housed in the minimalist casing is very popular. The high output LEDs temperature is kept in check by distinctive cooling fins. For the Licht24 model four additional signalling LEDs are located beneath the main LED. The standlight function is fulfilled by two signalling LEDs. The inclusive mounting bracket and screw are made from a stainless steel compound The Cyo Premium is approved by German road traffic regulations. * Please note the bottle version is 60 lux only

BML62 Cyo IQ Plus 60 lux with standlight for bottles

BML104 Cyo IQ Premium Senso Plus 80 lux with standlight for hubs

BML105 Cyo IQ Premium T Senso Plus 80 lux with daytime running light for hubs

BML66 Cyo IQ Senso Plus 60 lux with Alu styled housing and standlight for hubs

LUMOTEC Eyc®

LICHT24

Lumotec IQ2 Eyc

The Lumotec Eyc is very compact and weighs only 70gms. It has 50 lux output and an excellent homogenous lighting of the road. The DLR (Day Light Running) is automatically switched on/off by a light sensor. Supplied with a stainless steel bracket and clip on reflector. Approved by German road traffic regulations.

BML102 Luomtec EYC Plus 50 lux with standlight for bottle dynamo

BML106 Lumotec Eyc N Plus 50 lux with switch and standlight for hubs

BML107 Lumotec Eyc T Senso Plus 50 lux with daytime running light for hubs

BML160RDI for bottle dynamo with standlight

Lumotec IQ Avy

The Avy belongs to the new generation of Busch & Muller lights. It is sleek and slim in style. It incorporates the very successful IQ technology providing 30 lux light output with good homogeneous illumination of the road. This technically absolutely up to date range of lights offers a very reasonable price performance ratio.
An optional clip in reflector is available.

BML116 Avy N 30 lux without standlight for hubs
BML117 Avy N Plus 30 lux with standlight for hubs
BML118 Avy T Senso Plus 30 lux with standlight, senso & daytime running light for hubs

Lumotec Lyt

The Lyt offers a mid range light with modern LED technology. It has a very good and homogenous field of light with light at close range and precise light/dark boundary. The compact shape has an integrated front reflector and lateral light emission for added safety. The housing is extremely robust and the mounting bracket is made from stainless steel. Approved by German road traffic regulations.

For bottle dynamos

BML76 Lyt B 15 lux without standlight
BML77 Lyt B Plus 15 lux with standlight
BML70 Lyt 25 lux without standlight
BML72 Lyt Plus 25 lux with standlight

For hub dynamos

BML80 Lyt B N 15 lux without standlight
BML81 Lyt B N Plus 15 lux with standlight
BML89 Lyt B Senso Plus 15 lux with standlight & senso
BML71 Lyt N 25 lux without standlight
BML73 Lyt N Plus 25 lux with standlight
BML90 Lyt Senso Plus 25 lux with standlight & senso
BML99 Lyt T Senso Plus 30 lux with daytime running light

Lumotec Classic

A beautiful retro classic chromed housing encloses a very good and homogenous field of light with light at close range and precise light/dark boundary. The daytime running light has distinctive signalling LEDs for better visibility which are incorporated into the head light. Approved by German road traffic regulations. Supplied with a stainless steel bracket.

BML78 Classic 25 lux without standlight for bottle dynamo
BML79 Classic Plus 25 lux with standlight for bottle dynamo
BML91 Classic N 25 lux without standlight for hub
BML83 Classic N Plus 25 lux with standlight for hub
BML92 Classic Senso Plus 25 lux with standlight and senso
BML?? Classic T Senso Plus 30 lux with daylight running light

Dynamo Rear Lights

Pannier Rack Mounting

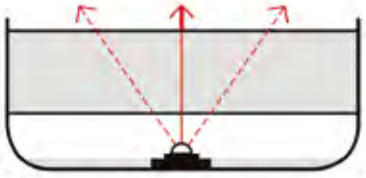
Toplight Line

The Toplight Line light with LineTec has two high power LEDs inside the 90mm LineTec light strip which is made of transparent glass that shines red when in use. It is super bright with 320° visibility. The standlight deactivates automatically after four minutes or can be switched off manually. Weighting only 53g this light is very slim in design. 94 x 45 x 16.5mm with a large incorporated Z reflector. Can fit to 50 or 80mm mounts.

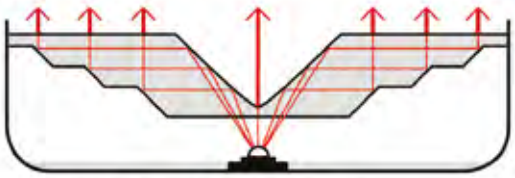
BML65 Toplight Line Plus with standlight and LineTec
BML86 Toplight Line Brake Plus with standlight and BrakeTec

LineTec®

BrakeTec®



Conventional: punctual light



Light strip created by LineTec lens technology

LineTec in action

TOPLIGHT®

Toplight Flat S

The flat version of the Toplight also incorporates the LineTec lens technology. LineTec enables other traffic participants to better estimate the distance to the bicycle. It has one high powered LED, 220° visibility, a standlight and a large Z reflector. Can fit to 50 or 80mm mounts.

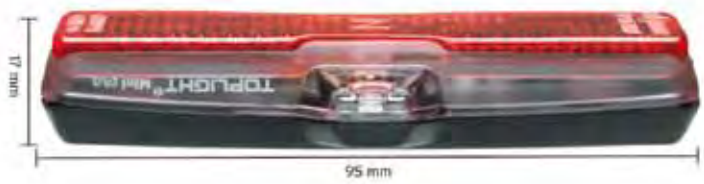
BML88 Toplight Flat S LineTec Plus with standlight

Toplight Mini

This is the world's smallest Toplight rear light. 95 x 38 x 17mm size, 34g weight. Suitable for slender carriers. Can fit to 50 or 80mm mounts. It has two high powered LEDs and a standlight. It offers more safety due to exceptional lateral light emission.

BML85 Toplight Mini with standlight

TOPLIGHT® Mini



DToplight XS Plus

With its unique soft touch sealing edge to protect it against shocks and moisture the DToplight XS incorporates a standlight and a large Z reflector. Can fit to 50 or 80mm mounts.

BML30 Dtoplight XS Plus with standlight

AMBA www.amba-marketing.com • sales 01392 829903 • email info@amba-marketing.com

Toplight View Plus

Modern and stylish in style the View Plus incorporates the latest technology. The clear casing allows for optimal lateral light emission. Supplied with an automatic standlight and a centrally integrated large reflector. 18mm width. 50g weight. Two super bright LineTec LEDs create a dual light source; emitting two strips of light. The effect: a brightly shining light area that can be perceived from great distances. With the BrakeTec version when the velocity decreases significantly both the upper and lower light strips pulsate extremely brightly

BML109 Toplight View Plus LineTec
BML110 Toplight View Plus BrakeTec

LineTec®

DToplight Plus

This is the original Dtoplight with standlight and single bright LED with wide visibility. The standlight automatically turns off after approximately four minutes. Can fit to 50 or 80mm mounts.

BML8 DToplight with standlight
BML17 Toplight without standlight

Mudguard Mounting

Secula Plus

The Secula is compact, bright and sturdy and incorporates the LineTec technology. A prism system creates an exceptionally bright light crown from one high power LED which is very distinctive due to its 'spatial' shape. This enables other traffic participants to better estimate the distance to the bicycle. Includes a centrally integrated rear reflector and standlight. 55 x 38 mm.

BML97 Secula with LineTec and standlight – mudguard mounted
BML101 Secula with LineTec and standlight – seat post mounted

4DLite Plus

This light has a clear lens over four bright red LEDs.
The protective wrap around frame over the front of the light helps to protect it from bumps and knocks. It has a standlight which after a few minutes cycling will shine for up to four minutes whilst stationary. The standlight can be switched off by rapidly by touching the two exterior contact pins with a piece of metal such as a coin. Supplied with twin core cable and connectors.

BML10 4DLite Plus

Seculite Plus

This popular more compact shaped rear light is supplied with a clear lens and reflectors to allow the single high powered red LED to shine very clearly with good visibility to other traffic participants. The standlight works in the same way as the 4DLite Plus. Supplied with twin core cable and connectors.

BML16 Seculite with standlight

Dynamos

Dymotec 6

Dymotec 6 is a high output dynamo with approximately 40% efficiency. The position to the tyre as well as the contact pressure can be aligned perfectly with two easy adjustments. With its easy touch trigger a quick press of the finger suffices and the dynamo pivots towards the tyre. Available in left or right hand. Supplied with a rubber roller. A wire roller is available for extreme conditions – see spares section.

Regular rubber tyre roller

Tyre roller for extreme conditions

BMDY1R – Dymotec 6 right hand
BMDY1L – Dymotec 6 left hand

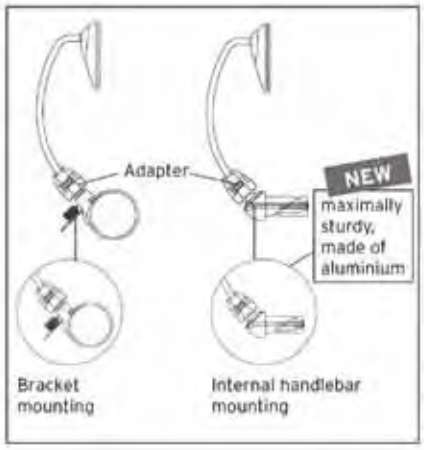
Mirrors

CYCLE STAR®

Busch+Müller manufactures mirrors for the motorbike industry. A scaled down version of a BMW motorbike mirror is available for bicycles – the Cyclestar. Available in either 60mm or 80mm diameter each mirror has a convex splinter proof glass lens that can move in all directions with wide rear vision. A number of different style stem designs ensure that the mirror can be fitted to most bicycles. Excluding the bar end fit version, all mirrors are supplied with both bar end fit and jubilee clip for the handlebars.

BMM1 Cyclestar long curved stem 60mm
BMM4 Cyclestar short straight stem 60mm
BMM5 Cyclestar bar end fit no stem 60mm
BMM6 Cyclestar short curved stem 60mm

BMM7 Cyclestar long curved stem 80mm
BMM8 Cyclestar short straight stem 80mm
BMM9 Cyclestar bar end fit no stem 80mm
BMM10 Cyclestar short curved stem 80mm



Spare Cyclestar Universal Fitting Kit

Cyclestar rear view mirror fitting kit

BMM2

Cyclestar long curved stem

BMM1

Cyclestar short straight stem

BMM4

Traditional Long Arm Mirror

A traditional style rear view mirror with a 9.3cm diameter round lens. Supplied with a 22mm steel clamp for attachment to the handlebars.

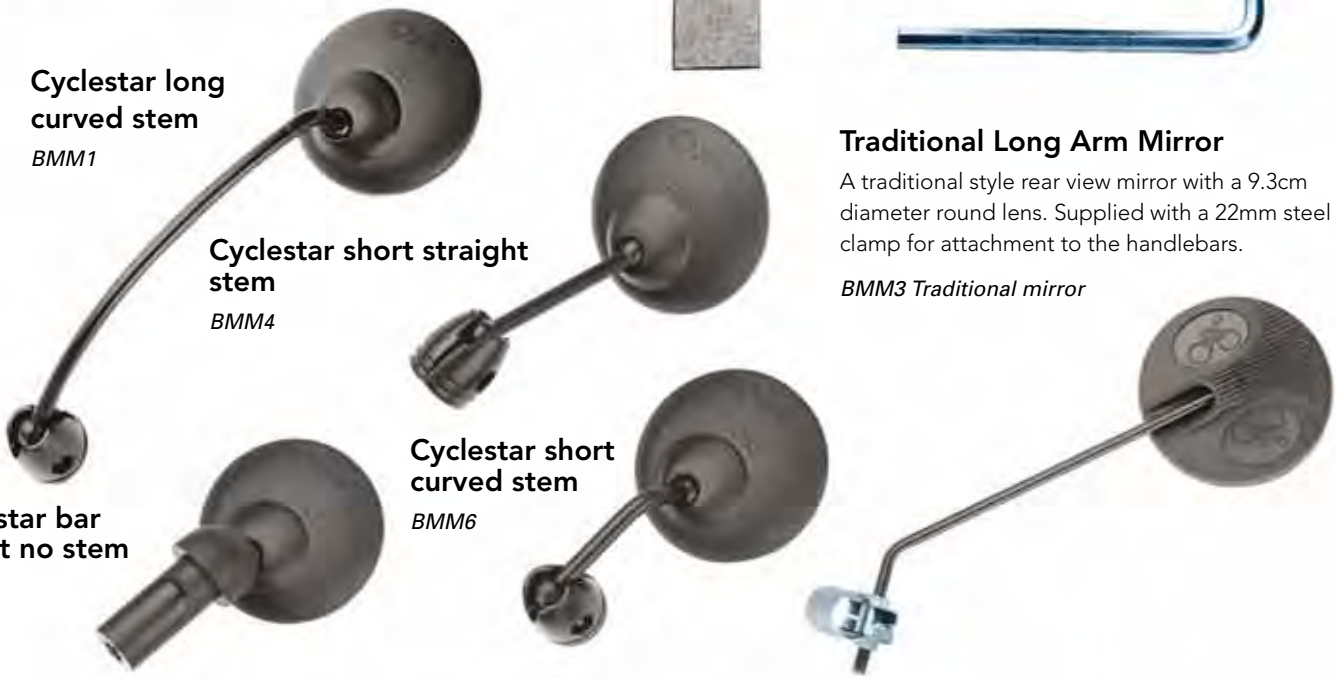
BMM3 Traditional mirror

Cyclestar bar end fit no stem

BMM5

Cyclestar short curved stem

BMM6



Lighting

Battery Front Lights

Ixon IQ Premium

The Ixon IQ Premium front battery light utilises a radically designed special reflector with an integrated cooling system. The white light comes from a high powered LED that is used as an indirect light source creating a uniformly illuminated output which is very bright, wide and homogenous. The high power mode provides 80 lux output for five hours or 10 lux for twenty hours in low power mode. Supplied with 4 rechargeable NIMH batteries and charger. The headlight can be tilted, pivoted and removed from its mounting bracket with one click and is easy to mount onto the handlebars. Standard (BMD42) and oversized (BMD43) handlebar brackets are also available. Approved by German road traffic regulations.

BML114 Ixon IQ Premium 80 lux front battery light with charger and batteries

PREMIUM

IXON Core

The IXON Core incorporates IQ2 technology which provides a very good quality and depth of light for the road or track. It is removable from the bike with one click and fits all handlebars. It is environmentally friendly and uses rechargeable batteries.

- 50 lux high power mode for more than three hours or 12 lux low power mode for fifteen hours
- Silver anodised aluminium casing
- Integrated, rechargeable lithium-ion battery
- Charged via micro USB port
- With capacity indicator
- Splash and rainwater proof
- Approved by German road traffic regulations

BML111 IXON Core IQ2 battery light

IXON® Pure

Ixon Pure

The Ixon Pure is a battery powered LED headlight with lens technology. It provides excellent lighting of the road with light at close range. A circumferential rubber edge protects from shocks and serves as an anti glare protection for the cyclist when riding out of the saddle. Lateral light emissions provide improved visibility for other traffic participants. It provides high power approximately 30 lux for five hours or low power approximately 15 lux for fifteen hours. Integral USB charging socket. Supplied with mains charging unit, charging cable and three rechargeable AA batteries.

BML94 Ixon Pure with charger, batteries & USB charging socket
BML95 Ixon Pure B front battery light only

Rear Battery Lights

TOPLIGHT® LineTec®

Toplight Line

The Toplight Line light with LineTec has two high power LEDs inside the 90mm LineTec light strip which is made of transparent glass that shines red when in use. It is super bright with 320° visibility. Weighting only 53 g this light is very slim in design. 94 x 45 x 16.5mm with a large incorporated Z reflector. The battery compartment can be locked with a special screw. Supplied with an AA battery and battery indicator. Shines for approximately forty hours. Can fit to 50 or 80mm mounts.

BML87 Toplight Line Permanent with LineTec
BML96 Toplight Line Senso with LineTec

Toplight Flat S Permanent

This rear LED battery light has 220° visibility due to the special lens system. It's very flat and light in design with a large integrated Z reflector with a single high power LED. Can fit 50 or 80mm mountings.

BML119 Toplight Flat Permanent

DToplight

The DToplight battery range will fit most pannier racks. Two AA alkaline or rechargeable batteries are required for all models. The 'DToplight Permanent' has two rear facing super bright LEDs with a computer generated lens to enhance light output. The '4DToplight' also has two lateral LEDs to enhance side visibility ie making the rider more visible for cars in side roads. The 'DToplight Senso' has intelligent sensor technology which recognises combined motion and darkness and will switch on and off automatically. It also has a 'manual' setting to leave the light turned on even during the day.

BML18 DToplight Permanent
BML28 4DToplight Permanent 2 central plus 2 lateral LEDs
BML21 DToplight Senso 2 central LEDs plus senso

IXXI

This very small compact rear battery has a high output LED. It is very bright with a large beam angle. It can be fitted to all seat posts. 53mm height x 31mm wide. Weight 35g including battery and mount. The light unit can be removed from the robust rubber casing with just one hand movement allowing access to the bottom charging port.

- Integrated rechargeable lithium-ion battery
- Shines for fifteen hours
- Charged via micro USB port
- With capacity indicator
- Approved by German road traffic regulations

BML112 IXXI rechargeable seat post mounted rear battery light

IXON Core and IXXI: Mounting with snug rubber straps. Charged via micro USB port

IX-POST

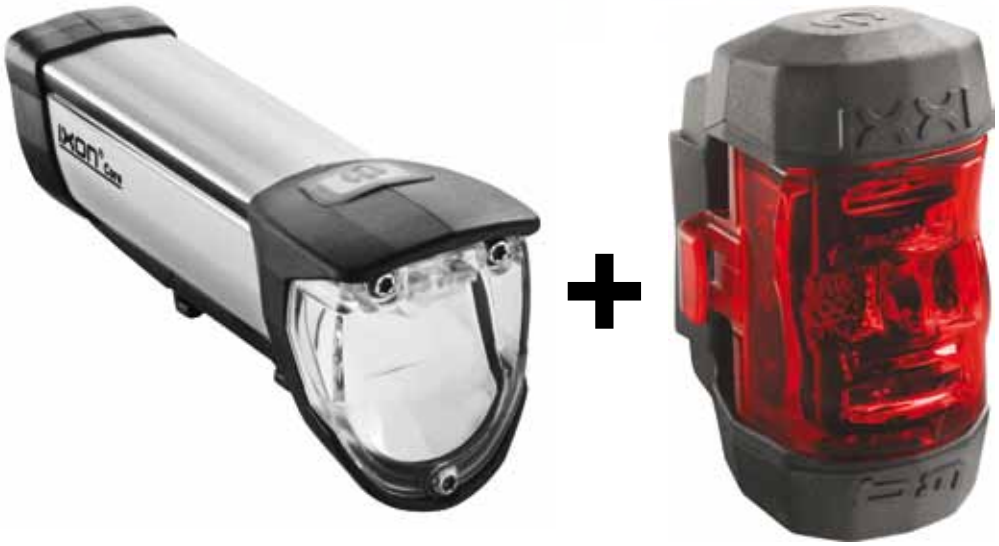
LED battery powered rear light utilising two rechargeable AAA batteries. Shines for approximately thirty hours when non rechargeable batteries are used. Enclosed in a firm rubber casing. With battery indicator. 65mm height x 43 mm width. 68g weight including battery and mount. Approved to German road traffic regulations.

BML113 IX-Post rechargeable seat post mounted rear battery light

Topfire Helmet Light

The Topfire helmet light is one of the lightest rear lights available – weight 19g including battery with over 180 hours run time. Four super bright flashing red LEDs attach to the rear air vents of the helmet with sticky pads. The on/off switch clips to the helmet strap.

BML1 Topfire Helmet Light



Battery Set – Ixon Core IQ2 Front & IXXI Rear Lights

Due to popular demand B&M have combined these two excellent battery lights. Competitively priced details of the lights can be seen in this section of the brochure

BML115 Ixon Core IQ2 front light & IXXI rear light set

Electronic Devices

E-Werk – ***Power Without Mains***

The award winning bike mobile E-Werk allows for charging of mobile phones, GPS, MP3 players and other electronic devices whilst cycling. Connected to a hub dynamo the energy is made usable to charge and/or power mobile devices. The power unit is easily mounted on the bike and includes output controls to vary both the voltage and current to suit the device attached. The E-Werk is splash and rainwater proof.

The E-Werk is supplied with attachments for both SON and Shimano hub dynamos on the 'power in' side and with three connectors for the 'power out' side: Standard USB, Mini USB and Micro USB. Voltage is adjustable from 2.8Volts to 13.3Volts, current from 0.1A to 1.5A. Maximum power output is 16W. The E-Werk charges at approximately 8 km/h and faster. At 15 km/h it charges as fast as standard mains connected chargers. It can be fed with up to 50 V DC, so that operation with an e-bike or car battery is possible as well.

BME E-Werk

WARNING: It is the responsibility of the user to select the correct power output for the device being used in conjunction with the E-Werk. Busch+Müller will not be liable for any damage caused to other equipment connected to the E-Werk.

For dynamo or battery connection / type 361

E-WERK®

Replacement parts

BMES1 E-Werk spare cable to hub

461KMIN E-Werk spare mini USB cable

461KMIC E-Werk output to USB Micro

461KUSBB E-Werk USB Cable 120mm

461 ZPB E-Werk spare cable set complete

AMBA www.amba-marketing.com • sales 01392 829903 • email info@amba-marketing.com

Cache Battery For E-Werk

Constantly supplies 5 V which is the standard voltage for charging via USB connection. 1400 mAh capacity. Supplied with a protective nylon bag. Weight approximately 180 g.
80 x 40 x 40mm.

Some sensitive mobile electronic devices react to voltage fluctuations by interrupting the charging process. Since the E-Werk is connected to a hub dynamo it cannot supply power free of those kinds of fluctuations. The cache battery harmonizes the voltage and prevents charging interruptions.

BMEC E-Werk cache battery

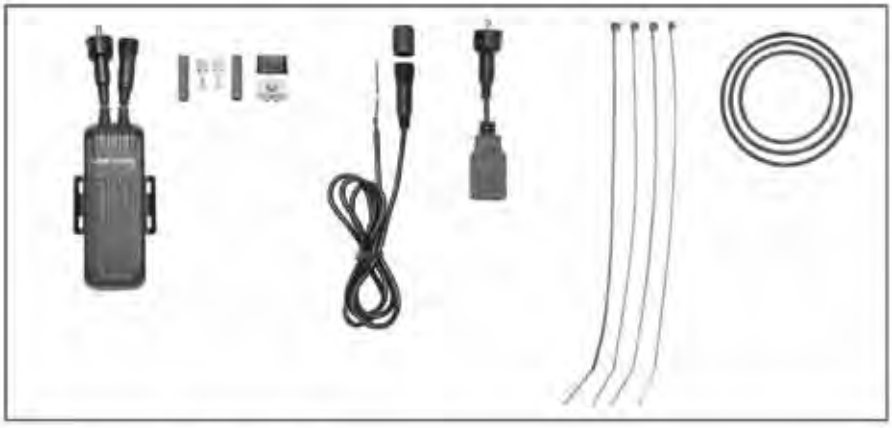
E-WERK (type 361) with cache battery (type 461A)

USB-Werk

The USB-Werk supplies 5 V and up to 1 A current.
A small integrated cache battery ensures a constant voltage supply during slow riding and or stops. It is a perfect fit for charging and or powering USB devices such as mobile phones, GPS, MP3 players etc. Contains cable with USB socket.

USB-BME USB-Werk

For dynamo / type 361BW



Complete accessory set of the USB-WERK

Light Checker

Super little device which allows you to check your front and rear lights are functioning well. Designed with quick connection terminals.

BMLCL Light Checker Light

Light Checker Pro

Designed for the bicycle workshop this electronic tool will check lighting components comprising of the dynamo, lights and wiring system including optical and acoustic signals. The battery and charging unit are also included. The adapter checks for short circuits in the frame earthing and tests incandescent bulbs. There is also a Shimano adapter for quick connection to Shimano hub dynamos.

BMLCL Light Checker Pro

Spares For Lights

Amba has a wide range of spares for Busch+Müller lighting systems. Here are some. For a comprehensive list please refer to our website.

Dynamo bracket to fit caliper and V brakes

BMD4

Shorter dynamo bracket to fit calliper and V brakes

BMD24

Dynamo bracket to fit cantilever brakes

BMD5

Shorter dynamo bracket to fit cantilever brakes

BMD25

Aluminium stay fitting dynamo bracket

To fit 15mm to 25mm tubing

BMD23

Ixon bracket to fit front fork

Standard size to fit V brakes

BMD40

Lumotec Retro bracket to fit 1" threaded front fork

BMD39

SL universal light bracket

SLF9

Replacement rubber roller for Dymotec 6

BMD17

Replacement all weather roller for Dymotec 6

BMD18

Rear pannier light bracket

BMD7

Rear seat bolt light bracket

BMD8

Ixon Handlebar Bracket

Standard size

BMD42

Cross bracket

Mounts rear mudguard lights to canti bracket

BMD36

Short bracket 474D

BMD47

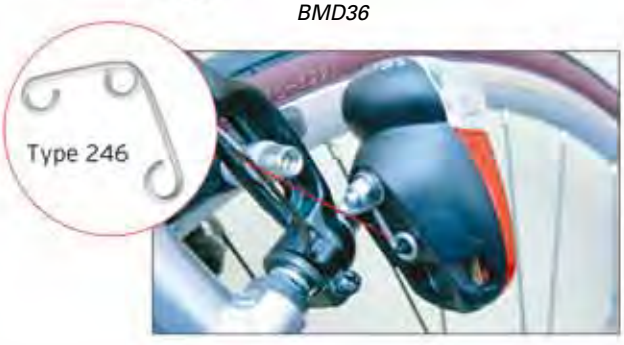
Medium bracket 475D

BMD52

Stainless steel light brackets

Long bracket 474DL

BMD55



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Dynamo headlights

LUXOS U additionally offers handlebar push button, USB charging, floodlight, rear light monitoring

	Ref. no.	Bottle or Hub	Light source	Lux	Extensive light field	Light at close range	Daytime running light LICHT24	Front reflector	Standlight	Switch ON/OFF	Sensor automatic
LUMOTEC IQ2 LUXOS											
B	BML100	H	LED	70	●	●	●	sep.	●	●	●
U*	BML98	H	LED	70/90	●	●	●	sep.	●	●	●
LUMOTEC IQ Cyo											
Plus	BML62	B	LED	60					●	●	
N plus	BML63	H	LED	60					●	●	
PREMIUM senso plus	BML104	H	LED	80	●	●			●	●	●
PREMIUM T senso plus	BML105	H	LED	80	●	●	●		●	●	●
Senso plus Alu	BML66	H	LED	60		●			●	●	
LUMOTEC IQ2 Eyc											
plus	BML102	B	LED	50		●		sep.	●		
N plus	BML106	H	LED	50		●		sep.	●	●	
T senso plus	BML107	H	LED	50		●	●	sep.	●	●	●
LUMOTEC IQ Avy											
N	BML116	H	LED	30		●		sep.		●	
N plus	BML117	H	LED	30		●		sep.	●	●	
T senso plus	BML118	H	LED	30		●	●	sep.	●	●	●
LUMOTEC Lyt											
Standard	BML76	B	LED	20		●		●		●	
Standard	BML70	B	LED	25		●		●		●	
Plus	BML77	B	LED	25		●		●	●	●	
BN	BML80	H	LED	20		●		●		●	
BN plus	BML81	H	LED	20		●		●	●	●	
B senso plus	BML89	H	LED	20		●		●	●	●	●
N	BML71	H	LED	25		●		●		●	
N plus	BML73	H	LED	25		●		●	●	●	
senso plus	BML90	H	LED	25		●		●	●	●	●
T senso plus	BML99	H	LED	30		●	●	●	●	●	●
LUMOTEC Classic											
Standard	BML78	B	LED	25		●		●		●	
Plus	BML79	B	LED	25		●		●	●	●	
N	BML91	H	LED	25		●		●		●	
N plus	BML83	H	LED	25		●		●	●	●	
senso plus	BML92	H	LED	25		●		●	●	●	●
T senso plus	BML120	H	LED	30		●	●	●	●	●	●

Battery headlights

	Ref. no.	Light source	Lux	Extensive light field	Light at close range	Front reflector	Switch ON/OFF	Charging
IXON								
Ixon Core IQ2	BML111	LED	50			Integral	●	Micro USB
Ixon IQ Premium	BML114	LED	80		●	Integral	●	4 x AA or rechargeable
Ixon Pure	BML94	LED	30		●	Integral	●	Micro USB
Ixon Pure B	BML95	LED	15		●	Integral	●	4 x AA batteries

Dynamo & Battery powered rear lights
Pannier Rack

Carrier mounting

	Ref. no.	Light source	Mounting distance	Dynamo	Battery	LineTec	Standlight	Sensor automatic	BrakeTec
TOPLIGHT Line									
Plus	BML65	LED	50	●		●	●		
Brake Plus	BML86	LED	50	●		●	●		●
Permanent	BML87	LED	50		●	●	●		
Senso	BML96	LED	50		●	●	●	●	

TOPLIGHT View									
plus	BML109	LED	50/80	●		●	●		
brake plus	BML110	LED	50/80	●		●	●		●

TOPLIGHT Flat									
S Plus	BML88	LED	50/80	●		●	●		
S Permanent	BML119	LED	50/80		●	●	●		

TOPLIGHT Mini									
plus	BML85	LED	50/80	●			●		

D-TOPLIGHT XS									
Plus	BML30	LED	50/80	●			●		

D-TOPLIGHT									
Plus	BML8	1 LED	50/80	●			●		
Permanent	BML18	1 LED	50/80		●		●		
4D Permanent	BML28	4 LED	50/80		●		●		
Senso	BML21	4 LED	50/80		●		●	●	

Mudguard mounting

	Ref. no.	Light source	Dynamo	LineTec	Standlight	Battery
SECULA						
Plus	BML97	LED	●	●	●	
Plus (strut mounting)	BML101	LED	●	●	●	
SECULITE						
Plus	BML16	LED	●		●	
4D-Lite						
Plus	BML10	4 LED	●		●	

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Supernova

Founded by the XC and downhill racer Marcus Wallmeyer in 1997, Supernova began with battery lights for off road use and later began to design and build dynamo powered, highly efficient, powerful lights that can be used on and off road without the restrictions implied by battery life expectancy. Using a dynamo system is 'revolutionary' in terms of high output off road lights – but it makes sense - you can power your light at any time for as long as you want to. There is no waiting for batteries to be charged and your lights will continue to function in very cold conditions where normal rechargeable batteries will cease to work. The electronics of the Supernova dynamo lights use the dynamo power highly efficiently – the complete system is extremely light and much cheaper than any battery powered system due to its long life expectancy. And this solution is 'green'. In 2012 Supernova added first class hub dynamos to their range which have been received to much acclaim.

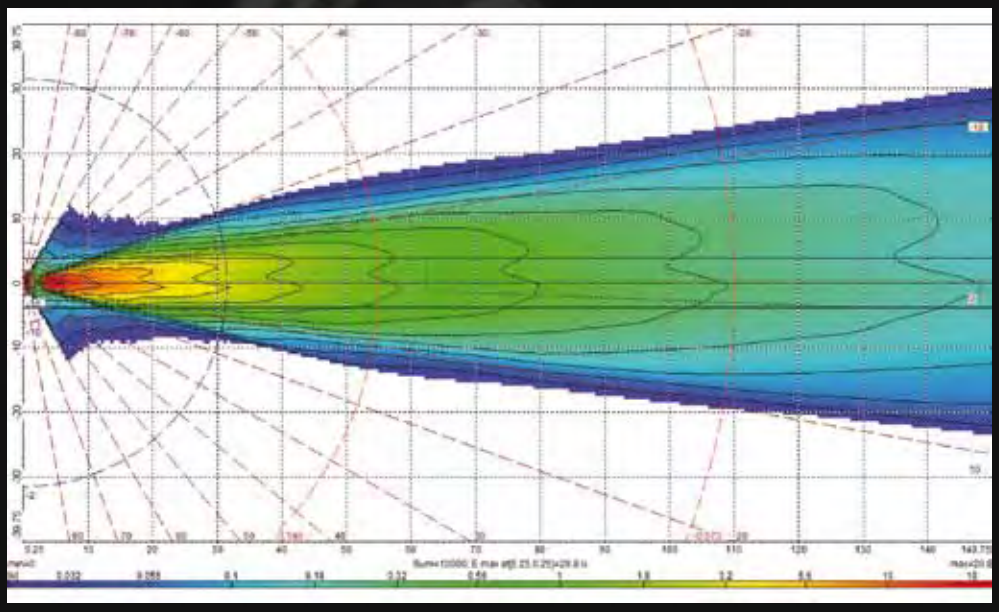
Supernovas' own in house development team work in conjunction with prestigious bodies such as the Light Technology Institute based in Karlsruhe, Southern Germany. Supernova is continually researching the latest LED technological developments. This means that new models will have better and brighter output as LEDs evolve. Supernova are so committed to this philosophy that it is possible for the consumer to return his or her light to have the latest compatible LED upgrade for a small charge.

Innovations

Supernova is continually striving to enhance and improve their products as developments in technology allows. Here are some of the current highlights from the Supernova evolution.

Terraflux2 Lens

The new Terraflux2 lens is made in a mould that was CNC machined with a precision of 0.1 micrometers. The finished lens only has a surface roughness of 5 nanometres! Even though these improvements can only be seen with a microscope they optimize the beam considerably. Enjoy this new level of perfection! Surpassing even the high demands of the German road regulations the Terraflux technology is capable of guiding more than 90% of the light beam onto the ground with the greatest of efficiency. This means that a considerably greater portion of the light can be used to illuminate the road ahead than with a standard lens. By optimizing the production parameters Supernova have achieved an excellent homogenous beam shape with an outstanding, far reaching light that has a comfortable width as well. Its brilliance is an important part of the quality that makes Supernova lights so special.



Light distribution simulation over a distance of 150 m. The reach of the beam is important for high speeds and the width for security in turns.

- 90% stronger ground illumination
- Homogeneous strong illumination
- Excellent illumnation of curves
- Will not blind oncoming traffic
- Weatherproof and resistant to aging
- Developed and produced in Germany
- Additional illumination of surroundings for more safety and better visibility of road signs
- Scratch resistant, high density surfaces
- Conical beam centre hole for better efficiency
- Extremely impact proof

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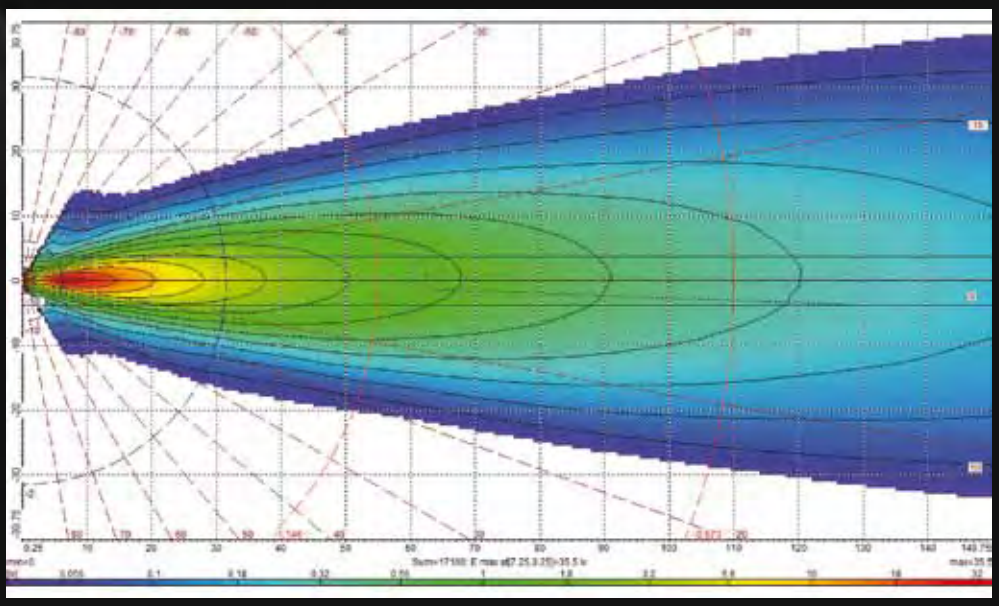
Triple Lens

– The perfect off road lens

The high performance Triple lens is used for all of Supernovas off road lights because off road a wide illumination of the surroundings is ideal. With this light numerous 24h races have been won. The current lens is perfectly matched to the newest generation of LEDs that are more than 50% brighter than the previous types. Thanks to the fine honeycomb structure on the surface the beam pattern is pleasantly homogenous.

Light distribution simulation over a distance of 150m. The homogeneous transitions at the margins produce a comfortable, smooth beam shape. The especially wide beam is ideal for off road use.

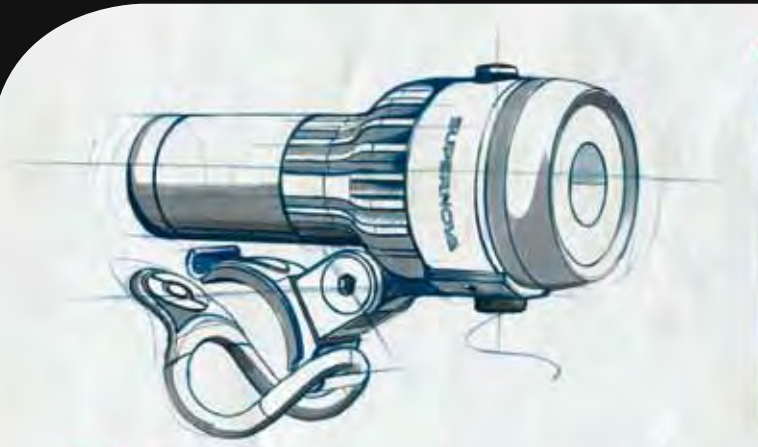


- Honeycomb surface for smooth beam shape
- Very wide, symmetrical beam
- Excellent illumination of curves
- Scratch resistant surface
- Impact resistant lens
- High efficiency

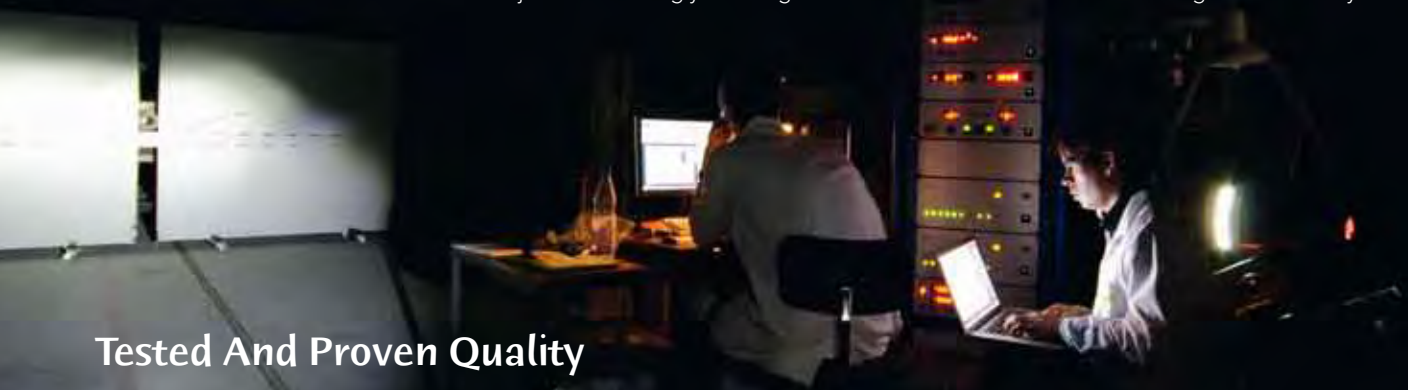
Designed With Passion

It's a long way from the initial drafts to a finished product. The Supernova development team always combines good design with innovate technology. The first creative phase already benefits from the experience already gained by the production of many successful products. Supernova develop each design idea technically with great passion to create ground breaking new products that can be enjoyed by their new owners for many years to come, thanks to their timeless design.

The design of Supernova products has been recognized with international awards many times for their high design quality and innovation.



● Please note that for all of the lights, in 2013 Supernovas LED manufacturer changed the reference value for their LED brightness from 25°C to 85°C.Measurements have been adjusted accordingly resulting in lower nominal values. In real life the lights can actually be brighter.



Tested And Proven Quality

Supernova has always built products designed to have the longest possible life spans. This requires careful testing of all components and through tests of the prototypes whenever a new product is developed. Through the years Supernova have continually developed more complex testing procedures in addition to ISO standard tests to simulate exceptional circumstances. This is where Supernova wants their products to excel.

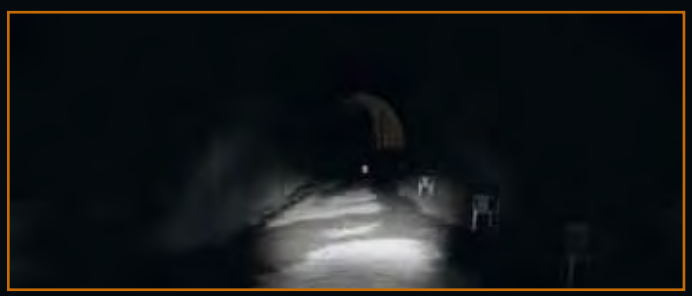
For example, in a climate chamber extreme environmental conditions are recreated to simulate the freezing Arctic or the humidity of the tropical rain forest. Seals have to remain tight at both ends of the temperature scale, cables must not get brittle in the cold and the quality of the housing parts is tested in a hot and humid environment. The real challenge that the lights have to face of course is in the repeated changes of environment they must face day to day ... from inside to out on a cold winter's day. This creates a pressure difference between the inside and outside of the housing and the seals have to prove their worth. By minimizing cavities and by designing the seals to withstand pressure changes of up to 1 bar, the lights are protected from such extremes. Supernova are so confident in their products that they offer their fully warranty even if the lights are used for extreme events such as the Race Across America, Paris-Brest-Paris, 24 hour Mountain Bike races or even a race around the world.

Tests done over several weeks in the climate chamber simulate many years of usage in extreme conditions.

This test with oscillating water jets simulates spray water from all directions.

The Fairy Tale Of The Lux

The oft quoted lux values are spot measurements of the brightness, in general measured at a distance of 10m. Measured in this manner, a laser would have a ridiculously high lux value, while being totally useless for cycling. The widely spread beam created by Supernova lights do not boast record brightness in one spot but rather illuminates a larger surface with even brightness. The lumen value given by Supernova for every light is a measure for the overall light quantity emitted by the LED. Absolute brightness alone doesn't tell the user anything about the beam shape.



The left beam has 4 x the brightness (lumens) of the right one but both have the same lux value, which only measures brightness in one spot. Don't be dazzled by sensationally high lux values when comparing lights.

Dynamo Technology – The beauty of generating your own power

Lightweight! The new Supernova Infinity S hub dynamo is beautifully light, adding only some 200g weight over a standard front hub.

Bright! A Supernova dynamo lighting system is often brighter than many battery powered lights. Perfectly cooled LEDs work with the highest efficiency.

Ecological And Economical! The electronics of Supernova dynamo lights uses the energy provided by the dynamo very efficiently. The complete system is much more cost effective and ecological than any battery powered system in the long run.

Durable! Each part is made from rugged CNC machined and anodized aluminium. The light housings are water proof and the dynamo hubs with heavy duty bearings are triple sealed. The high quality materials and highest production standards give all Supernova products a long life span.

Be Prepared! Dynamo lighting systems are ready for use any time they are needed, without limitations. There is never a need to charge them and the trip can be extended as long as desired.

Dynamo Front Lights

E3 Pro 2 & E3 Triple 2 – Designed to be the best

Both of these models have rugged aluminium housings which can withstand serious crashes onto hard ground. In the worse case every single part of the housing can be replaced. Both the housing and the mounting brackets of the E3 2 are anodized to make the corrosion resistant. Since scratches cannot be avoid during the long lifetime of an E3 2 Supernova have used corrosion resistant 6061 aluminium alloy.

Cooling the LED emitter is one of the most important functions of the light housing. Only a well cooled LED works with optimal efficiency and reaches its full brightness. The 65 x 40 x 40mm housing of the E3 2 is very small but the cooling fins increase the surface area by 20%. The rugged shrink wrapped twin core wiring throughout the system ensures a safe power transfer without loss and a top performance.

E3 Pro 2 – The best choice

The E3 Pro 2 is the top of the range dynamo light from Supernova. The new side illumination greatly increases the safety of the rider in traffic. This light has a glare free lens and passes the exacting German road regulations with flying colours. The lens provides a very wide, homogenous carpet of light on the ground, even at low speeds. The light appears very bright because most of it is guided towards the ground. The beam also reaches far enough for fast riding. The E3 Pro 2 has a five year quality warranty.

The E3 Pro 2 lens provides a great glare free illumination with an excellent far reaching beam.

Technical Specifications:

Lumen measured warm: 205 lumens
Standlight: 5 minutes
Lens type: Terraflux2
Illuminant: CREE LED
Length x diameter: 65 x 40mm
Housing material: 6061 Aluminium
Mount: Multimount
Weight 110g
Warranty: Five years

SN1GM2	*Grey*
SN1BM2	*Black*
SN1SM2	*Silver*
SN1RM2	*Red*
SN1BLM2	*Blue*
SN1GRM2	*Green*
SN1ORM2	*Orange*
SN1PKM2	*Pink*

E3 Triple 2 – The brightest dynamo light

The revolutionary E3 Triple 2 dynamo light illuminates the trails with three well cooled CREE power LEDs brighter than any other dynamo light available. This is made possible by the ingenious electronics that uses the power of the generator with optimal efficiency at all times. The E3 Triple 2 was developed for the 24 hour MTB races. Olympic gold medallist Bart Brentjens used the E3 with his four man team which won the 24 hour race at the Nurburgring in Germany. Full light output is achieved at speeds over 8kph. Now 40% brighter than the original E3 Triple thanks to three CREE LEDs.

Love Your E3 Triple 2!

Powered by an efficient, silent hub dynamo, the E3 Triple 2 has unlimited burn time, is absolutely reliable and never has to be charged. The three high powered CREE LEDs are cooled optimally by the airflow around the light providing an impressively bright light of up to 800 Lumens. Intelligent activation of the LEDs by sophisticated electronics transforms the dynamo power into light with great efficiency. The E3 utilises a capacitor which supplies the LED with energy at low speeds or if stationary. The first few seconds of stand light are very bright and then the brightness is adjusted to a lower setting which shines for up to five minutes.

The E3 has a very homogenous wide illumination pattern and gives you a good orientation in every surrounding. The E3 Triple is recommended for 24 hour MTB races, MTB night riding, Randonneuring and Cyclocross training off road.

The E3 Triple 2 was designed for off road use.
The tunnel shows its enormous brightness very well.

Technical Specifications:

Lumen measured warm: 640 lumens
Standlight: 5 minutes
Lens type: Terraflux 2
Illuminant: 3 x CREE XM-L2 LED
Length x diameter: 65 x 40mm
Housing material 6061 Aluminium
Mount: Multimount
Weight 120g
Warranty: Five years

SN3SM2	*Grey*
SN4SM2	*Black*
SN5SM	*Red*
SN6SM	*Blue*
SN7SM	*Green*
SN8SM	*Orange*

E3 PURE 3

The new Supernova E3 PURE 3 is the smallest road legal dynamo light with aluminum housing. In spite of its extremely small size, the E3 PURE 3 is one of the brightest bicycle lights available. It has a glare free lens. This is made possible by the lamps' innovative inner housing design, which directs the heat of the LED straight to the cooling fins for maximum brightness. Permanent daylight running light and stand light provide added security day and night. The light is sealed completely watertight.

Technical Specifications:

Lumen measured warm: 205 lumens
Standlight: 5 minutes
Lens type: Terraflux 2
Illuminant: CREE LED
Length x diameter: 49 x 41mm
Housing material 6061 Aluminium
Weight 90g
Warranty: Five years

SNPURE3	*Black Multimount*
SNPURE3HBM	*Black Handlebar mount*

Dynamo Rear Lights

Innovation – Amazingly Small & Bright

Supernova have designed their tiny rear lights with the same dedication and commitment that is given to the front lights. The attention to detail is beautiful. For many years it was impossible to build such a tiny rear light with such brightness that was road legal in Germany. Supernova have achieved this accolade with their new E3 Tail Light 2. The dazzling bright light is guided by the clever Twin Beam Technology providing the best possible safety.

The standlight electronics of the puristic rear light has been neatly integrated into the front light. This innovation makes the extremely small design possible. The CNC machined rear light weights only 12 g and is 100% waterproof. The new side illumination offer increased traffic safety.

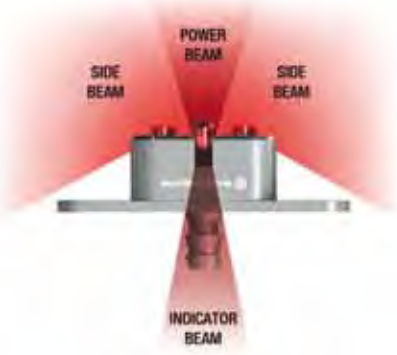
E3 Tail Light 2 – A New Level Of Security

This light has an ultra bright 250° beam which greatly enhances the safety of the rider. The Twin Beam Technology in all of Supernovas new rear lights offers extremely bright illumination towards the rear and both sides. The indicator beam even makes it possible for the rider to control whether the light is on while sitting in the saddle.

The Twin Beam Technology optimally combines the light of the three LEDs by using two different beam angles and brightly illuminates the whole danger zone behind the rider.

Seat post mounted

Rack mounted



Specifications	Seat Post Light	Rack Light
Standlight:	4 minutes	4 minutes
Illumination:	5mm custom made LEDs	5mm custom made LEDs
L x W x D:	30 x 11 x 15mm	30 x 11 x 15mm
Material:	6061 Aluminium	6061 Aluminium
Weight:	18g	12g
Mounting:	All seat posts	50mm standard
Colours:	Silver, Grey & Black	8 colours

SN6G2	*Grey 50mm rack fitting*
SN6B2	*Black 50mm rack fitting*
SN6B2-FR	*Black 50mm rack fitting (Cable exit below)*
SN6S2	*Silver 50mm rack fitting*
SN6R2	*Red 50mm rack fitting*
SN6BL2	*Blue 50mm rack fitting*
SN6GR2	*Green 50mm rack fitting*
SN6OR2	*Orange 50mm rack fitting*
SN6P2	*Pink 50mm rack fitting*
SN6G-S	*Grey single bolt mudguard mounted*
SN7G2	*Grey seat post mounted*
SN7B2	*Black seat post mounted*
SN7S2	*Silver seat post mounted*

Dynamo Rear Light Spares & Accessories

Quick Release Gold Connector Set

For use with the Supernova lights these gold connectors and integrated heat shrinks make quick removal of the lights nice and easy. Always pull on the plug not the cable!

SN8 Quick Release Gold Connector Set

Security Bolt Kits For Multimounts

For added security this kit allows the rider to replace all screws on the Multimount with custom made safety bolts. All screw heads have identical hex heads with a central pin to discourage theft. Two sets of multimount screws and one main screw M6 x 45 made from stainless steel are supplied together with two custom keys.

SN27 Security Bolt Kits For Multimounts

O Ring Set For Handlebars & Stems

Includes two sets of O Rings (EPDM50 & 70).
Softer version for stems, 31.6mm handlebars and seat posts. Tougher version for 25.4/26mm handlebars.

SN28 O Ring Set For Handlebars & Stems

Spacer Kit For E3 Tail Light

Stainless steel spacers and bolts to attach E3 Tail Lights to some racks without the need to drill holes into the rack.

SN22 Spacer Kit For E3 Tail Light

Mounting Options For E3 Pro 2 and E3 Triple 2

Multimount Bracket

The E3s are supplied with a multimount bracket which has a CNC machined safety lock that can be adjusted vertically with its dual pivot points. This bracket is recommended for V brakes.

SN10 Black Multimount Bracket

Handlebar Mount

Off road tested handlebar with two axis adjustment options for perfect beam alignment. It is easy to remove the light from this bracket if required. Supplied with two O Rings
– 1 x 25.4mm, 1 x 31.8mm. Five year warranty is offered on the UV resistant O rings. Compatible with all multimount lights.

SN25 Handlebar Mount

Central Handlebar Mount

A CNC machined carbon central handlebar mount with a carbon tube weighing 34g only is available. Ideal for mounting a bike computer or GPS unit. Has a large 26mm clamping tube.
For 31.6mm bars only.

SN29 Central Handlebar Mount

FCL Adapter

The new Fork Cube Leg adapter modifies all multimount brackets to fit road bike calliper brake mounting bolts and also fork crowns if a Magura HS11/33 is installed. The FCL attaches to the end of the multimount.

SN26 FCL Adapter

2015 Supernova Plug

Simple and elegant the Plug IIIs' electronics are compatible with iPhones and most USB chargeable devices. Producing a clean 5V / 500 mA USB output from the AC current of hub dynamos from the speed of 11 km/h (7 mph). The electronics are contained within the sealed aluminium housing which helps protect it from impacts and moisture.

The Plug IIIs' performance has been greatly improved over earlier models especially in the low and very high speed ranges. The Plug III fits into the steerer replacing the headset.

SNPLUGEX
Supernova Plug III

Weight:	46g
Diameter:	3.6cm
Height:	2.5cm
Output:	5V 500mA
Input:	6V 3W Hub dynamo
Connector:	Type A USB

Expander for Plug III

Supplied separately for use with 1 1/8 steerers.
The integrated cable channel enables dynamo cables to be internally routed through the steerer.

Front Battery Lights

Supernova Airstream 2

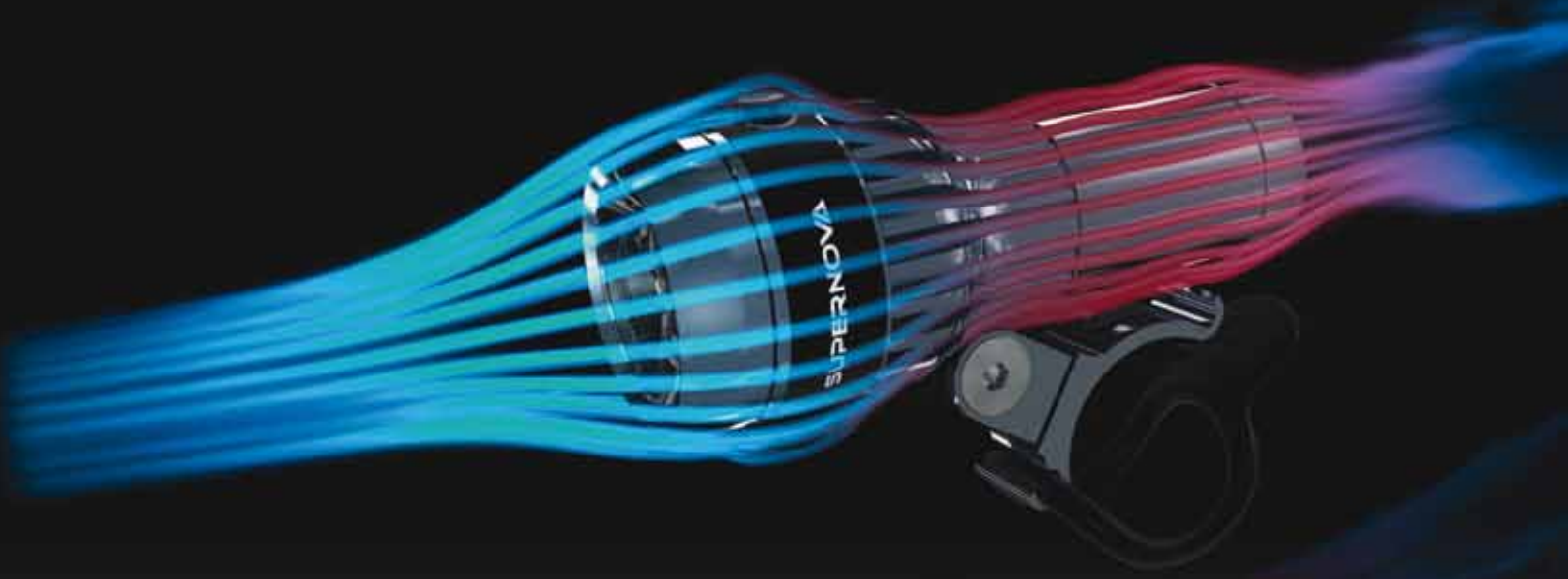
This version of the Supernova Airstream 2 is one of the brightest road legal lights available. It was developed as a completely carefree light that can be used for daily commuting as well for tough off road rides. The Airstream 2 can be used universally and can be mounted on all round handlebars and even centrally on the stem. The plug in rear light is supplied from the main battery in the Airstream 2 and the rider will never need to worry about charging it or replacing its cells.

The Supernova Terraflux2 lens used in the Airstream 2 spreads out a wide, far reaching carpet of light in front of the rider. This technological core piece guides 90% of the light towards the ground where it is needed most. The efficiency of the lens is so good that the rider can ride using the dimmed down setting with up to twenty four hours burn time.

SNAIR2 Supernova Airstream 2

Technical Specification

Lumen measured warm:	205/370 lumen
Burn time:	2.5 – 24 hours
Lens type:	Terraflux2
Illuminant:	Cree LED
Length x diameter:	105 x 40mm
Material:	6061 Aluminium
Weight:	165g



Cooling

The intelligent active cooling electronics of the Airstream recognizes the critical temperatures with a special heat sensor and adjusts the LED power in fine steps until the temperature has stabilized again. After the housing has cooled off the Airstream returns to the original brightness setting automatically.

Thermal Revolution

Maximum LED brightness of up to 370 Lumens in a compact, rugged and excellently cooled housing! Thanks to its integrated Lithium-ion battery and the universal quick mounting, the Supernova Airstream is an absolutely care free light. Whether on the way to work, in heavy city traffic or while out training on a mountain bike on fast single track, the Airstream offers versatility of use. Thanks to the removable handlebar mount the Airstream can even be used as an extremely bright flash light.

The intelligent battery indicator adapts to all environment temperatures

Setting 1:	2.5 h Burn time
Setting 2:	3.5 h Burn time
Setting 3:	7 h Burn time
Setting 4:	24 h Burn time
Flashing:	12 h Burn time

	Left	Right
100% - 50%	GREEN	
50% - 10%	GREEN	RED
10% - 1%	-	RED
1%	-	RED FLASHING

SNAIR2BLK	Black
SNAIR2GRY	Grey
SNAIR2SLV	Silver

Features

- Terraflux2 lens
- Sealed lithium-ion battery
- Glowing, glove friendly button
- Battery capacity indicator
- Weather proof and resistant to cold up to -5°FSafety side illumination
- USB charge function – also while running the light
- Extreme brightness thanks to excellent LED cooling
- Plug in rear Airstream light

Mounting Options

Handlebar Mount

The newly developed, light but robust mount allows you to install the light in many different positions and offers many useful functions.

CNC machined aluminium.

2 axis adjustment options for optimal alignment of the beam.

Stainless steel bolts and abrasion resistant PE washers prevent wear on the metal sections.

The quick release mount can be installed and removed in a few seconds.

Fits 25.4/26.0 and 31.8 mm bars and many stems.

Has two extremely strong UV resistant O rings and a five year warranty.

The strong grippy pull tag with embossed Supernova logo facilities the installation.

Weight 22g

SN25 Handlebar mount

Helmet Mount

The ultra light Airstream helmet mount allows the installation on vented helmets. The light can be adjusted horizontally and vertically without tools after the installation. A soft rubber pad protects the helmet from damage. The new Terraflux2 lens is ideal for helmet mounting because it guides 90% of the light towards the ground, losing very little scattered light that shines up into the sky. This allows the Airstream to compete with other lights boasting much higher brightness values. The high mounting position allows the light to spread out especially wide to illuminate difficult trail sections optimally.

SN30 Helmet mount

USB Adaptor Cable

30cm adaptor cable to USB 2.1 mm DC jack on light. Enables the Airstream to be charged from standard USB ports.

SNAIRUSB USB cable

O Ring Set For Handlebars & Stems

Includes two sets of O Rings (EPDM50 & 70). Softer version for stems, 31.6mm handlebars and seat posts. Tougher version for 25.4/26mm handlebars.

SN28 O Ring Set for Handlebars and Stems

Rear Battery Light

SNAIRB2BLK Black Seat Post Mounted
SNAIRBR2 Black Rack Mounted

Airstream Tail Light 2

The new 36g Airstream tail light with Twin Beam Technology draws its energy from the large main battery of the front light and therefore does not require its own power source. This probably makes it the smallest rechargeable battery rear light in the world. It is also the brightest German road legal rear light available. The Tail Light is simply plugged into the charge port of the Airstream and is automatically recognised by the intelligent electronics. Powering the three bright red LEDs reduces the burn time of the Airstream only by minutes. Available in permanent seat post or rack mounted versions. The universal seat post clamp fits all seat post sizes and keeps the light safely attached to the bike. With the reliable Airstream tail light the rider can forget all the worries incurred with failing and falling off plastic rear lights.

Technical Specifications

Light colour:	Red	
Compatibility:	Airstream 2	
Illuminant:	5mm custom made LEDs	
Material:	6061 Aluminium	
	Rack	Seat Post
Length x width x depth:	30 x 11 x 15mm	60 x 11 x 15mm
Weight:	12g	36g
Cable length:	95cm & 95cm	120cm

AXA Locks

Axa frame locks are fitted to many bicycles ridden in Holland, but are less common in the UK. These practical locks are permanently fitted to your bike and will help prevent someone wheeling away your bike while you leave it for a short time. If you require more security then you can easily plug in an extender cable to lock the bike to something secure such as a lamp post.

The Axa frame locks supplied by Amba are tested to Sold Secure Silver standard. Sold Secure is the recognised lock testing facility in the UK; supplying data to commercial customers, the insurance industry, the Home Office, the Police and the public.

Frame Locks & Accessories

Defender RL

The Defender will mount to braze ons on the frame seat stays where available. Supplied with mounting brackets to fit seat stays. The Defender is compatible with all of the extender cables in our range. Two neat folding keys are included. Mounting brackets are available to mount to cantilever and V brake studs.

LK37 Defender RL frame lock with fittings

Solid Plus

Compatible with the plug in cables and extender cables. Has an extra wide opening. It has an anti drilling cylinder and hardened steel bracket for optimal safety. It has a variety of fitting options to fit more frame styles

LK46 Solid Plus frame lock with fittings

Solid

The Solid mounts in the same way as the same way as the Defender but is not compatible with the plug in extender cables.

LK43 Solid frame lock with fittings

RL80 Extender Cable

80cm length cable lock compatible with Defender RL lock

LK38 Plug in cable lock for Defender RL

RLC100 Extender

100cm length high security chain link extender compatible with Defender RL lock

LK39 Plug in chain link extender for Defender RL

RLD180 Plug In Cable

180 cm plug in cable for use with the Defender RL lock.
Cable is 12mm diameter

LK41 Plug in cable for Defender RL

RLC140 Chain Link Extender

140mm hardened steel plug in chain for use in combination with the Defender or Solid Plus

LK40 Plug in cable for Defender RL or solid Plus

ATB Mounting Kit

ATB mounting kit for Defender RL and Solid locks supplied with spacers, washers, nuts and bolts

LK44 ATB Mounting kit

Lights & Dynamos

axa basta

With these Axa lights and dynamos we are able to offer good quality affordable lighting solutions with classic style.

Vintage Retro LED Battery Light

A great light to fit onto your retro bike using current LED technology and 2 bright LEDs. Also incorporates an integrated reflector. The dim function uses only 50% of the capacity should your battery be running low. Easy to operate switch button. Supplied with 3 AA LR6 alkaline batteries with approx 50 hours run time.

AXAVINTB Black
AXAVINTC Chrome plated

Classic LED Battery Light

Starter LED headlight with 4 lux light output. Styled to suit retro and classic bikes. Its easy to use because of the comfortable push button and easy battery change. Battery life up to fifty hours. 2 AAA alkaline batteries included. Available in black or chrome housing.

AXACLASSB Black
AXACLASSC Chrome

Sports USB Light Set

Neat compact set of front and rear lights which recharge via USB. With four light settings for both lights. With high beam the front light has up to three hours run time and the rear up to four hour. Easy to fit without tools. Low battery indicator.

AXAUSBSET USB Sports Set

Trio 8201 Dynamo

An excellent value for money left hand dynamo. The Trio has steel bearings and a stainless steel shaft and a metal roller. 6 Volt/3 Watt capacity. Complies with the German (StVZO) regulations

DY3 Trio 8201 Dynamo

HT Traction Dynamo

A good quality highly efficient left hand dynamo with an integrated over voltage diode to prevent extreme current flow to your lights. 6 Volt/3 Watt. Supplied with double bronze bearings and stainless steel shaft. Complies with German (StVZO) regulations.

DY4 HT Traction Dynamo

HR Traction Spare Rubber Rollers

Set of two spare rollers for the HT Traction dynamo.

DY5 HR Traction Dynamo Spare Rubber Rollers

Additive Brackets

Additive develop and sell exclusive bicycle accessories designed to create new and distinctive solutions. Their innovate range of brackets will keep important accessories to hand whilst decluttering the handlebars and stem. Amba is proud to add Additive to our growing range of quality brands that create constructive solutions for cyclists across the board.

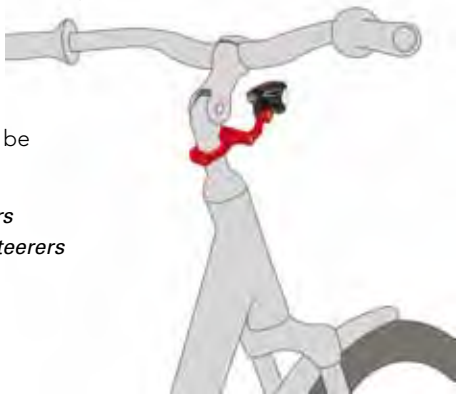
All of these brackets offer an elegant and highly integrated solution for bikes with limited frame space. Mounted under the stem these bracket eliminates space problems on the frame. Simply remove a single 10mm spacer and replace with the appropriate bracket.

Bottle Cage Holders

These brackets offers fast convenient access to a bottle. They can be mounted on the left or the right or both sides for those who like to have two bottles to hand. Both brackets are compatible with most bottle cages.

AB201S Bottle Cage Holder Spacer One For 1 1/8" Steerers
AB203S Bottle Cage Holder Spacer Two For 1", 1 1/8" & 1 1/2" Steerers

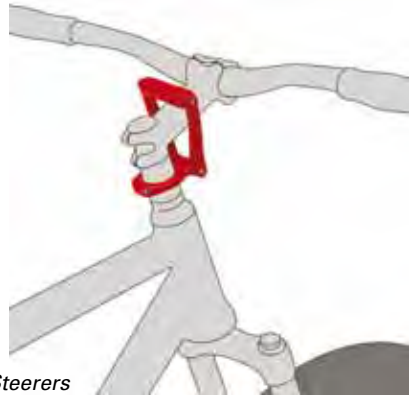
Light Holders



These brackets are designed to allow front lights to be steerer mounted

AB2902S Light Holder Spacer One For 1 1/8" Steerers
AB204S Light Holder Spacer Two For 1" & 1 1/8" Steerers

Device Holder



This bracket is designed for lights with bar fittings or computers to be steerer mounted.

AB205S Device Holder Spacer Two For 1: & 1 1/8" Steerers

In 1975 Kool Stop solved the problem of heat build up and loss of friction with their major innovations in brake pad design – hence the name! Kool Stop continues to be the leading developer in bicycle brake and disc pads. By controlling all of the ingredients in the rubber compound and by milling all of the rubber in their own factory, Kool Stop is able to constantly improve the quality of their brake pads and maintain rim friendliness. New models that fit the demands of the market are introduced regularly and compounds suitable for different rims are developed on an on going basis. For quality pads that are long lasting and efficient look no further.

All compounds are rim friendly™

Kool Stop

Cantilever Brake Pads

MTB Contoured Cantilever

Post mount for standard cantilevers. Designed to follow the curve of the rim of MTB wheels.

Weight: Approx 24 g/pair

C1KS390 Black
C1KS395 Salmon
C1KS396 Green/ceramic
C1KS397 Dual compound

Eagle 2 Cantilever

The extended pad length and off centre post design provide even wear for longer life. The pad had an 'auto toe in' feature for easy set up. Angled tip to divert mud and rain away from rim. Power-Stop design.

Weight: Approx 40 g/pair

C2KS241 Black
C2KS245 Salmon
C2KS246 Green/ceramic
C2KS247 Dual compound
C2KS248 Carbon Rims
C2KS249 Rigida Carbide

Thinline Cantilever

Designed for bikes with tight brake clearance such as touring or some cyclo cross bikes. Allows easier wheel removal without resorting to letting the tyre down. Thinner but longer pad.

Weight: Approx. 40 g/pair

C3KS340 Black
C3KS345 Salmon
C3KS346 Green/ceramic
C3KS347 Dual compound

Holders With Replacement Pads

Light weight Dura type holder with dual compound replacement pad for Cycle cross.

Weight: Approx 28.7 g/pair

H6KS550 Cantilever Dual compound
H7KS560 Threaded Dual Compound

Threaded Brake Pads V Type

MTB Contoured

Designed to follow the curve of the rim of MTB wheels. Designed for use with modern V brakes and supplied with a full set of washers.

Weight: Approx 58 g/pair

T1KS380 Black
T1SK385 Salmon
T1KS386 Green/ceramic
T1SK387 Dual compound

Thinline V TM

Designed for tight brake clearance systems. Easy tyre removal M-6 threaded post with washer assembly for four multiple spacing adjustments.

Weight: Approx 58 g/pair

T2KS330 Black
T2KS332 Red
T2KS335 Salmon
T2KS336 Green
T2SK337 Dual compound

Supra 2

Padlock system. Pad with a concave backbone to resist movement and increase performance. Includes V-brake washers that can be fitted with the original "pad-lock" gripper washer system to fit all types of brake systems.

Weight: Approx 58 g/pair

T3KS430 Black
T3KS435 Salmon
T3KS436 Green/ceramic
T3KS437 Dual compound
T3KS439 Rigida Carbide

Eagle 2 Caliper

The extended pad length and off centre post design provides even wear for longer life. The angled tip diverts mud and rain away from rim. Power-Stop design.

Weight: Approx 56 g/pair

T4KS291 Black
T4KS290 Silver
T4KS297 Dual compound

Continental

Kool Stop quality and performance at a basic price. Salmon compound works well with steel rims.

Weight:
Approx 40 g/pair

T8KS120A Grey
T8KS121A Salmon

Holders With Replacement Pads Plus Inserts

Dura

Dual compound. Single holder with set of inserts

Weight: Approx 40 g/pair

H11KS470 Dura 2 holder extra light & triple compound inserts

Campag

for Campagnolo brakes from 2000 onwards

Set with 2 holder and 2 pair replacement pads (dual-compound and salmon).

Weight: Approx 50 g/pair

H3KS490 Campag block holders incl 1 x dual compound, 1 x Salmon inserts

H3KS491 Campag block holders. Dual compound

Campag 10 Speed Inserts

for 2000 to date plus Campi skeleton holders

Weight: Approx 12 g/pair

R15KSSRB	*Super Record Black*
R15KSSRSA	*Super Record Salmon*
R15KSSRC	*Super Record Green/ceramic*
R15KSSRDL	*Super Record Dual*
R15KSSCF	*Super Record Carbon*

Campag 8+9 Speed Inserts

for pre 2000 brakes

Weight: Approx 10 g/pair

R3KS360 Black
R3KS365 Salmon
R3KS366 Green/ceramic
R3KS367 Dual compound
R3KS368 Carbon rims

H12-V2 Brake

Next generation V brake holder. Lighter than before in a lovely titanium colour.

Weight: Approx 44 g/pair

H12KS525 V2 Dual compound

H12 V2-B E-Bike Holder

Electric bike compound - rim friendly compounds specially formulated for the higher speeds of E-bikes.

Weight: Approx 44 g/pair

H12KSVBH2E
E-Bike compound

Inserts for E-Bike Holders

Supra 2 compound Grey
Weight: Approx 58 g/pair

T3KSSUP2E

Magura HS33 compound Grey
Weight: Approx 21 g/pair

R9KSHS33E

V2 type compound Grey
Weight: Approx 12 g/pair

R16KSV2E

H7 Cross Holder

Light weight Dura type holder with dual compound replacement pad for Cycle cross.

Weight: Approx 39.6 g/pair

H7KS560 Dual compound

Tectonic Multi Compound

The Tectonic® brake pad system is a forged alloy holder that allows the rider to customize the exact positioning of the friction materials.
These inserts interlock together and are secured on all sides.

Weight: Approx 56 g/pair

H4KS500 V type holder

Inserts for Tectonic

Weight: Approx 12 g/pair

R6KS510 Black
R6KS515 Salmon
R6KS516 Green/ceramic
R6KS518 Carbon rims
R6KS519 Triple/multi

Replacement Insert Pads

V Type Inserts

Fits H5 and H12 Holders

Universal replacement pad for V brake systems.
Weight: Approx 10 g/pair

R1KS190 Black
R1KS195 Salmon
R1KS196 Green/ceramic
R1KS197 Dual compound
R1KS199 Rigida Carbide

Dura 2 Inserts

Fits: Road Holder H2 & H11,
Cross Holder H6 & H7

New improved dura inserts.
Weight: Approx 10.8 g/pair

R7KS570 Black
R7KS575 Salmon
R7KS576 Green/ceramic
R7KS577 Dual compound
R7KS578 Carbon
R7KS579 Triple compound

Avid Type 1 Insert

Special pad for Avid brake systems.
Weight: Approx 10 g/pair

R2KS480 Black
R2KS485 Salmon
R2KS486 Green/ceramic
R2KS487 Dual compound

Magura HS33

Replacement pads for various Magura brakes
Weight: Approx 21 g/pair

R9KS590 Black
R9KS595 Salmon
R9KS596 Green/ceramic
R9KS599 Rigida Carbide

Vintage Replacement Pads

Campagnolo Retro

Superior quality for the old Campagnolo Nuovo Record brake shoe.
Fits most old school brake shoe holders from the past.
Supplied two pairs per bag
Weight: Approx 16 g/pair

R8KSCR Black
R8KSCRSA Salmon

Mafac Retro

Supplied two pairs per bag
Weight: Approx 14 g/pair

R10KSMRB Black
R10KSMRSA Salmon

Philips/Raleigh Rod Brake Inserts

Replacement inserts for vintage Philips/Raleigh Rod brake shoe holders. Exact fit! No trimming needed.
Weight: Approx 15 g/pair

R13KSRODB Black
R13KSRODSA Salmon

Mafac Tandem Retro Inserts

Replacement inserts for vintage Mafac tandems.
Weight: Approx 13 g/pair

R14KSMRTB Black
R14KSMRTSA Salmon

Weinmann 6 Dot Inserts

Replacement inserts for vintage Weinmann 6 Dot inserts
Weight: Approx 14 g/pair

R18KSW6B Black 2 pairs
R18KSW6SA Salmon 2 pairs

Weinmann X Inserts

Replacement inserts for vintage Weinmann X Inserts
Weight: Approx 14 g/pair

R19KSWXB Black 2 pairs
R19KSWXSA Salmon 2 pairs

Modolo Inserts

Replacement inserts for vintage The Modolo
Weight: Approx 14 g/pair

R20KSMB Black 2 pairs
R20KSMSA Salmon 2 pairs

The newest addition to the range the Aero Kool pads are made with forged aluminium cooling pinned backing plate and a high performance organic compound. The new pads greatly reduce heat build up in the braking system and provide superior, lasting brake power.

Avid Elixir, SRAM, MTB XX

Weight: Approx 24 g/pair
KSD296K

SRAM Red Road Systems

Weight: Approx 24 g/pair
KSD297K

Formula Mega, The One, RX, R1, RO

Weight: Approx 24 g/pair
KSD330K

Shi XTR BR-M965/966/975, DeoreXT, BR-M765/775,SLX, BR-M665, LX BR-M585/800, 975, BR-T605, 665, BR-M 535, Hone BR-M 601, Saint BR-M800, Road R505, comp. Tek.TRP DASHcarbon/DASH

Weight: Approx 24 g/pair
KSD630K

Shimano XTR 2011, BR-M985, XT 2012, BR-M785, XTR 2014, BR-M987, Alfine BR-S700

Weight: Approx 24 g/pair
KSD635K

Disc Pads

Kool Stop - A name you can brake on

Kool Stop disc pads are made with organic materials that are blended and bound together using a resin. The compounds include small amounts of metal to improve the braking formula but though this is a mined material the pads are largely organic. The term semi metallic can also be used. During testing Kool Stop found that their disc pads are Rotor Friendly and provide high performance braking throughout the life of the pad.

Magura

Louise discs pre 2001
Clara discs pre 2000
Weight: Approx 14 g/pair
KSD100

Clara 2001-2002,
Louise 2002-2006, **Louise FR**
Weight: Approx 17 g/pair
KSD110

Gustav M discs pre 2006
Weight: Approx 30 g/pair
KSD120

Julie 2001-2008
Weight: Approx 22 g/pair
KSD130

Marta/Marta SL
discs pre 2008
Weight: Approx 15 g/pair
KSD140

Louise 2007 onwards,
Marta SL 2009 onwards, **Julie HP**
Weight: Approx 20 g/pair
KSD150

Hayes

HFX Mag Plus/HD, HFX 9Carbon/9XC/9HD, MX-1, HFX-9
hydraulic & compatible with Promax hydraulic & mechanical
Weight: Approx 22 g/pair
KSD200

MX-2, MX-3, MX-4, CX-5, Sole, Promax DDSK-810
Weight: Approx 13 g/pair
KSD220

El Camino
Weight: Approx 18 g/pair
KSD230

Stoker Trail, Carbon, Gram
Weight: Approx 20 g/pair
KSD250

Hayes Ryde discs pre 2010, with spring 2011onwards
Approx 20 g/pair *KSD260*

Avid

Juicy 7 & 5, Carbon, Ultimate, Ball Bearing 7
Weight: Approx 19 g/pair
KSD270

Ball Bearing 5 (BB5)
Weight: Approx 15 g/pair
KSD280

Elixir, Sram XX
Weight: Approx 20 g/pair
KSD296

Dia Tech

Nifon, Aero, Falcon & Dia Tech kinetic
Weight: Approx 18 g/pair
KSD300

Formula

Formula B4, Racing XC, Extreme FR/DH/ B4Team/Pro/SL, Grimeca system 13
Weight: Approx 22 g/pair
KSD310

Formula Oro series
Weight: Approx 18 g/pair
KSD320

Formula Mega, The One, R1, RX & RO
Weight: Approx 18 g/pair
KSD330

Hope / Giant

Hope. 2 P, Giant MPH 200
Weight: Approx 19 g/pair
KSD500

Hope. Mono Mini
Weight: Approx 16 g/pair
KSD510

Hope. Mono 6Ti
Weight: Approx 28 g/pair
KSD520

Hope. M4 (2 pairs for 1 caliper), Enduro & DH4
Weight: Approx 26 g/pair
SD530

Hope XC4 (4 Piston, Cross Country)
Approx 20 g/pair
KSD540

Sintered brake compound with copper plated steel back plate

Kool Stop sintered metal disc brake pads are designed to give your bike performance braking in extreme conditions, e.g. XC, downhill, trials and dual slalom riding. Their pads have a quick break in period so the rider gets the maximum performance during those demanding rides when stopping power, durability and long pad life are required. Sintered metal compounds have a higher resistance to brake fluid contamination and should not be used on ceramic rotors or in closed hydraulic systems.

Hope Mini discs pre 2003
Weight: Approx 20 g/pair
KSD550

Giant MPH2 + 3 2001onwards
Weight: Approx 18 g/pair
KSD560

Hope Mono Trial
Weight: Approx 18 g/pair
KSD570

Hope MotoV2, Tec V2
Weight: Approx 18 g/pair
KSD580

Shimano

Shimano XT BR-M755, Sram 9.0, Cleg DH,. Grimeca system 8, Hope Mono M4, Hope Tech M4
Weight: Approx 20 g/pair
KSD600

Shimano Deore BR-M555/M556, Nexave BR-C901
Weight: Approx 19 g/pair
KSD610

Shimano Deore. Mechanical BR-M515/BR-M475-M525
Weight: Approx 22 g/pair
KSD620

Shimano XTR MR-965/966/975, Deore XT BR-M765/755, Deore SLX BR-M665, Deore LX BR-M585/800/975, BR-T605/665, Deore BR-M535/595, Hone BR-M601, Saint BR-M800, Alfine S500, S501, Road R505. Compatible with Tektro TRP DASH carbon/DASH
KSD630

Tektro, Pro Max, Suntour, Joy Tech

Tektro IO hydraulic/mechanical
Weight: Approx 20 g/pair
KSD700

Tektro Lyra / IOX, Novela
Weight: Approx 15 g/pair
KSD710

Suntour DB700 hydraulic
Weight:
Approx 22 g/pair
KSD730

Joy Tech mechanical
Approx 18 g/pair *KSD760*

HFX Mag Plus/HD, HFX 9Carbon/9XC/9HD, MX-1, HFX-9 hydraulic & compatible with Promax hydraulic & mechanical
Weight: Approx 22 g/pair
KSD200S

Juicy 7 & 5, Carbon, Ultimate, Ball Bearing 7
Weight: Approx 20 g/pair
KSD270S

Formula Oro series
Weight: Approx 18 g/pair
KSD320S

Shimano XTR MR-965/966/975, Deore XT BR-M765/755, Deore SLX BR-M665, Deore LX BR-M585/800/975, BR-T605/665, Deore BR-M535/595, Hone BR-M601, Saint BR-M800, Alfine S500, S501, Road R505. Compatible with Tektro TRP DASH carbon/DASH
KSD630S

Electric Bike Components

Amba carries a growing range of E-Bike specific products from a number of our brands.
E-Bikes are growing in popularity in the UK and we want to be able to offer good quality components for this sector.
Please refer to the Amba website for full details.

Busch & Muller

B&M can provide E-Bike options for all of their main lights. For example the front mounted IQ Cyo, IQ Fly, IQ2 Eyc and Lumotec IQ Lyt. As these lights are available on special order only please contact Amba to discuss your requirement

Supernova

Supernova offer a range of E3 e-Bike lights which have been developed purely to be used in conjunction with an e-bike or Pedelec with 6V direct current. In contrast to dynamo lights it can run at full power even when the bike is standing still thanks to the Supernova cooling fins in the aluminium housing.

E3 E-Bike Mini 4 10V DC glare free lens Black
E3 E-Bike V6s 6V DC glare free lens Black
E3 E-Bike V6s HBM 6V DC glare free lens Black
E3 E-Bike V1260 12-65V DC glare free lens Black

Koolstop

In their pursuit of braking excellence Koolstop have produced a range of E-Bike specific rim and disc pads. These are manufactured with E-Bike specific compounds.

Disc Pads

KSD295E Avid Code 5 2010
KSD296E Avid Elixir
KSD160E Magura MT2, MT4, MT6, MT8 201
KSD130E Magura Julie 2001-08
KSD150E Magura Louise 2007
KSD620E Shimano Deore Mechanical
KSD635E Shimano XTR 2011
KSD630E Shimano XTR
KSD735E Tektro

Rim Pads

T3KSSUP2E Supra 2
R9KSH33E Magura HS33 Inserts
H12KSVBH2E V2 Brake Holder & Inserts
R16KSV2E V Brake Inserts

Hebie

The chainguard system for Shimano STEPS consists of a special retainer ring and a chainguard available from the Hebie range. Compatible with chainguards HB360, HB0342 and HB0395

HBSS38 Shimano STEPS Bracket 180mm for 38T
HBSS44 Shimano STEPS Bracket 210mm for 44T

HB0395 Chainguard Plug STEPS Compatible 38T

HB0342 Chainguard Screw In STEPS Compatible 38T

HB360 Full chainguard for triple chainsets up to 42T ring

Swiss Eye

We're very excited to bring Swiss Eye to Amba and all of our customers. There's a great range of top quality innovative glasses to suit many sporting and leisure requirements with the added benefit of glazing for those who have prescription glasses and all at excellent prices! We've started with a smaller selection from the complete program but this will grow over 2015 so please check the website for details. Non stock models can be ordered in for customers promptly.

Polarised Lenses: offering a contrast intensifying effect and absorb unpleasant light reflections and mirroring which appear eg on water

Photochromic Lenses: offered on some models which adapt the shading automatically

Shatterproof Polycarbonate Lenses: All Swisseye sports glasses have shatterproof polycarbonate lenses

100% UVA, UVB & UVC Protection: All Swisseye glasses offer 100% protection plus the highest optical quality without distortion

Antifog/Antiscratch Coating: Prevents all lenses from steaming up and protects from scratches. NB. Not available with photochromic and polarised lenses. With the hydrophobic coating water rolls off the lens easily and particles are eliminated

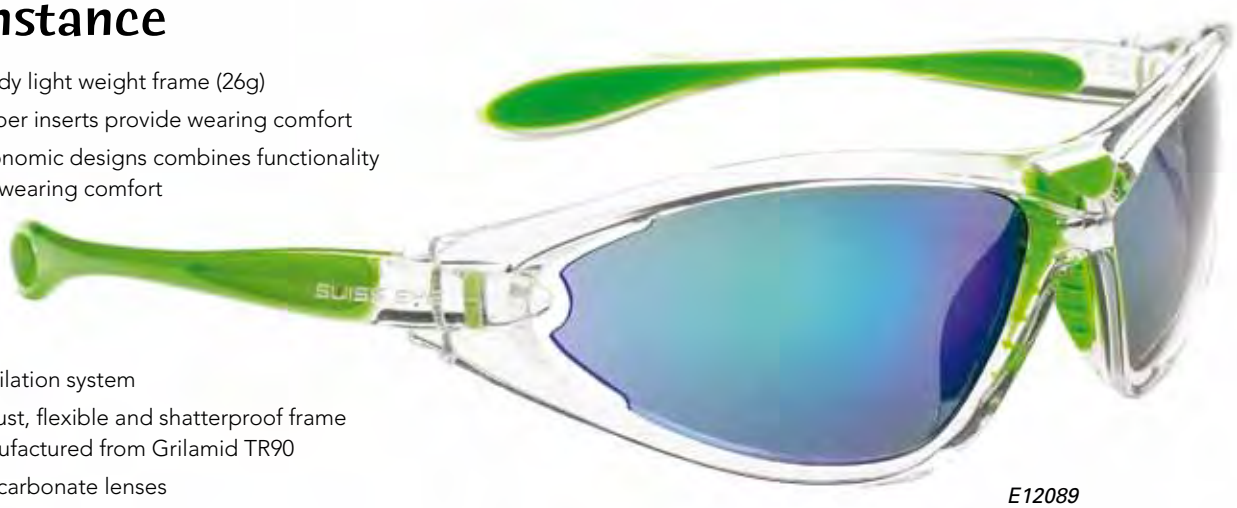
Swisseye was founded in 1996 in Germany with the concept to develop and produce innovative sports glasses which incorporate a range of features. These include:

- Innovative special combined antifog/antiscratch coating
- Flexible, anti allergic materials
- Shatterproof polycarbonate lenses
- Manufactured to the strict safety norm EN 1836:2005+A1:2007
- All glasses offer the highest optical quality (optical class 1) with 100% UVA, UVB and UVC protection up to 400 nanometre
- Lenses which adapt automatically to the brightness of the environment
- Excellent back up, service and advise
- The Amba website offers information on where to get glasses glazed and which prescriptions can be used in conjunction with each model

Adult Sports Glasses

Constance

- Trendy light weight frame (26g)
- Rubber inserts provide wearing comfort
- Ergonomic designs combines functionality and wearing comfort



- Ventilation system
- Robust, flexible and shatterproof frame manufactured from Grilamid TR90
- Polycarbonate lenses
- Clear view because of the special antifog/antiscratch coating from Swisseye
- Includes two spare lenses – Orange & Clear
- Microfibre bag for cleaning
- 6 x 16 x 8 cm rigid case for transportation and protection whilst not in use
- Optical glazing possible

E12089
Crystal Green frame with Smoke Green Revo lenses

SSE12092
Crystal Pink frame with Smoke Pink Revo lenses

SE12087
Crystal Blue frame with Smoke BW Revo lenses

Novena

- All round sports glasses with light weight frame (26g)
- Rubberised, fluted nose bridge and rubberised temple ends offering a comfortable and secure hold
- Comfortable, light, delightful haptic and with a wide field of view
- Robust, flexible and shatterproof frame manufactured from Grilamid TR90

- Polycarbonate lenses
- Clear view because of the special antifog/antiscratch coating from Swisseye
- Includes two spare lenses – Orange & Clear
- Microfibre bag for cleaning
- 6 x 16 x 8 cm rigid case for transportation and protection whilst not in use

SE12467
Matt Blue Black frame with Smoke BW Revo lenses

SE12465
Matt Black Grey frame with Smoke FM lenses

SE12462
Matt White Red frame with Smoke BR Revo lenses

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Novena S

- All round sports glasses for smaller faces with light weight frame (25g)
- Rubberised, fluted nose bridge and rubberised temple ends offering a comfortable and secure hold
- Comfortable, light, delightful haptic and with a wide field of view

- Robust, flexible and shatterproof frame manufactured from Grilamid TR90
- Polycarbonate lenses
- Clear view thanks to the special antifog/antiscratch coating from Swisseye
- Includes two spare lenses – Orange & Clear
- Microfibre bag for cleaning
- 6 x 16 x 8cm rigid case for transportation and protection whilst not in use

SE12482
Matt White Red frame with Smoke BR Revo lenses

SE12486
Matt Violet Black frame with Smoke BW Revo lenses

SE12485
Matt Black Grey frame with Smoke FM lenses

Outbreak Luzzone

- Powerview-System allows for the whole foil to be glazed for prescription glasses
- Very popular model with light weight frame (27g)
- Very robust and stylish
- Maximum peripheral view
- Special temple form (arms) with rubberised, fluted temples providing good hold
- Temple manufactured in Grilamid TR90
- Polycarbonate lenses

- Clear view because of the special antifog/antiscratch coating from Swisseye
- Microfibre bag for cleaning

SE14055
Silver Black frame with Smoke lenses

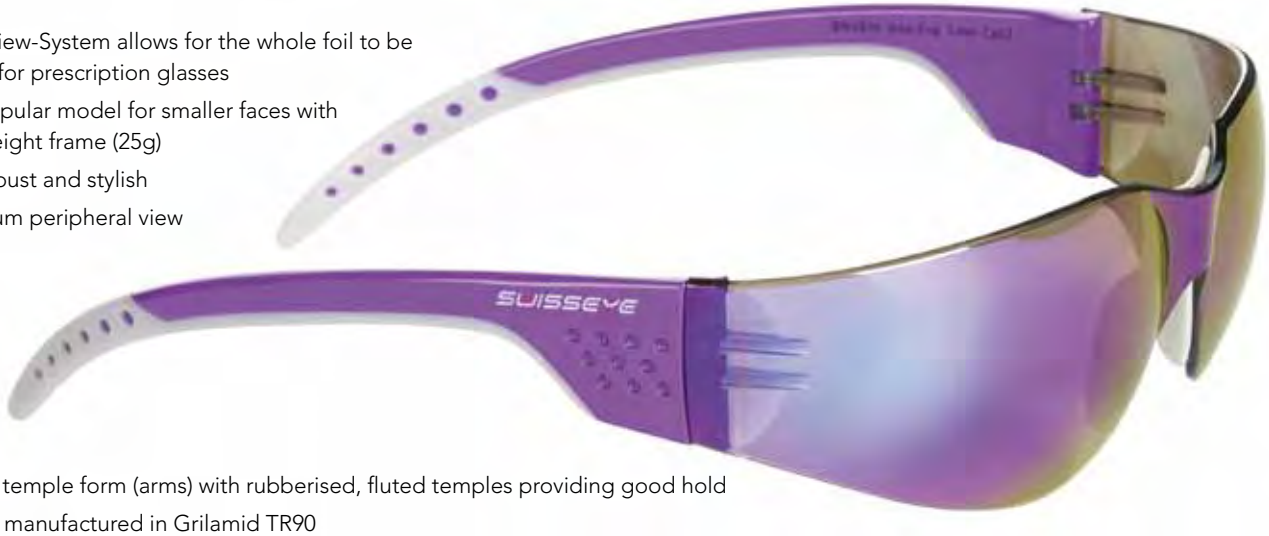
SE14057
White Grey frame with Smoke FM lenses

SE14059
Red Black frame with Smoke FM lenses

SE14051
Black Silver frame with Smoke lenses

Outbreak Luzzone S

- Powerview-System allows for the whole foil to be glazed for prescription glasses
- Very popular model for smaller faces with light weight frame (25g)
- Very robust and stylish
- Maximum peripheral view



- Special temple form (arms) with rubberised, fluted temples providing good hold
- Temple manufactured in Grilamid TR90
- Polycarbonate lenses
- Clear view thanks to the special antifog/antiscratch coating from Swisseye
- Microfibre bag for cleaning

SE14076
Purple frame with Smoke Revo lenses

SE14060
Red Black frame with Smoke FM lenses

SE14067
White Grey frame with Smoke FM lenses

SE14061
Black Silver frame with Smoke lenses

Slide

- Light weight sports slick sports glasses with/without Revo lenses
- Rubberised, cold adjustable temple (arms) ends offer good hold
- Adjustable nose bridge for a good fit
- Sportive temple with spring hinge
- Robust, flexible and shatterproof frame material manufactured from Grilamid TR90
- Polycarbonate lenses

- Clear view thanks to the special antifog/antiscratch coating from Swisseye
- Includes two spare lenses – Orange & Clear
- Microfibre bag for cleaning

SE12276
Matt Black frame with Smoke FM lenses

SE12278
White Blue frame with Smoke BW Revo lenses

SE12277
White Green frame with Smoke FM lenses

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C-Shield RX Sets

- Removable clip adapter
- Exclusive and extremely comfortable sports glasses with carbon temples (arms)
- Good air circulation, wide sight field, maximum wind protection for high speed sports
- Adjustable nose segment and rubberised temple ends offering a comfortable and safe hold
- Light weight frame (25 g) with maximum functionality
- Orange Smoke photochromic lenses with antireflective coating
- Removable RX clip adapter for glazing which is also suitable for Move and Novena models
- Robust, flexible and shatterproof frame Carbon frame material
- One piece polycarbonate lens
- Microfibre bag for cleaning
- 6 x 16 x 8 cm rigid case for transportation and protection whilst not in use

SE12192RX
Silver Carbon frame with Orange Smoke Photochromic lenses

SE12191RX
Black Carbon frame with Orange Smoke Photochromic lenses

Removable clip adapter

C-Shield S RX Sets

- Removable clip adapter
- Exclusive and extremely comfortable sports glasses for smaller faces with carbon temples (arms)
- Good air circulation, wide sight field, maximum wind protection for high speed sports
- Adjustable nose segment and rubberised temple ends offering a comfortable and safe hold
- Light weight frame (25 g) with maximum functionality
- Orange Smoke photochromic lenses with antireflective coating
- Removable RX clip adapter for glazing which is also suitable for Move and Novena models
- Robust, flexible and shatterproof frame Carbon frame material
- One piece polycarbonate lens
- Microfibre bag for cleaning
- 6 x 16 x 8 cm rigid case for transportation and protection whilst not in use

SE12193RX
Black Carbon frame with Orange Smoke photochromic lenses

SE12194RX
Silver Carbon frame with Orange Smoke photochromic lenses

Accessories & Spares for Sports Glasses

SE62031
Fog stop cloth/posh cleaning cloth

SE62141
Clip adapter for C-Shield, C-Shield S, Novena, Novena S & Move

SE62151
Spare rubbers for Clip adapter (pair)

Novena RX Sets

- All round sports glasses with light weight frame (26g)
- Adjustable nose bridge and RX clip adapter
- Rubberised, fluted nose bridge and rubberised temple ends offering a comfortable and secure hold
- Comfortable, light, delightful haptic and with a wide field of view
- Robust, flexible and shatterproof frame manufactured from Grilamid TR90
- Polycarbonate lenses
- Clear view because of the special antifog/antiscrat coating from Swisseye
- Includes two spare lenses – Orange & Clear
- Microfibre bag for cleaning
- 6 x 16 x 8 cm rigid case for transportation and protection whilst not in use

SE12465RX
Matt Black Grey frame with Smoke FM lenses

SE12462RX
Matt White Red frame with Smoke BR Revo lenses

Novena S RX Sets

- All round sports glasses for smaller faces with light weight frame (25g)
- Adjustable nose bridge and RX clip adapter
- Rubberised, fluted nose bridge and rubberised temple ends offering a comfortable and secure hold
- Comfortable, light, delightful haptic and with a wide field of view
- Robust, flexible and shatterproof frame manufactured from Grilamid TR90
- Polycarbonate lenses
- Clear view thanks to the special antifog/antiscratch coating from Swisseye
- Includes two spare lenses – Orange & Clear
- Microfibre bag for cleaning
- 6 x 16 x 8 cm rigid case for transportation and protection whilst not in use

SE12482RX
Matt White Red frame with Smoke BR Revo lenses

SE12485RX
Matt Black Grey frame with Smoke FM lenses

Sight

- Removable clip adapter
- Classic sports glasses (28 g weight)
- Photochromic with antireflective coating inside guarantees outstanding optical characteristics
- The highest optical quality (optical class 1) and good sight field
- Rubberised temple ends and a cold adjustable nose pad offering comfortable and safe hold
- Removable RX clip for glazing
- Robust, flexible and shatterproof frame material manufactured from Grilamid TR90
- Polycarbonate lenses
- Includes microfibre bag for cleaning
- 5.2 x 16 x 7.5 cm rigid case for transportation and protection whilst not in use

SE12052
Shiny Black Red frame with Photochromic Orange Smoke lenses

SE12055
Carbon frame with Photochromic Orange Smoke lenses

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Children's Sports Glasses

Bambino

- Perfect eye protection for the youngest in fresh colours which kids really prefer
- Removable headband included
- Light weight (22 g) and a perfect fit
- Made in a double injection process
- Utilising high quality materials which are suitable for children
- Includes a microfibre bag for cleaning and protection
- Optical glazing possible

SE16613
Shiny Titanium Orange frame with Smoke lenses

SE16611
Shiny White Pink frame with Smoke lenses

E16612
Matt White Purple frame with Smoke lenses

SSE16614
Matt Black Red frame with Smoke lenses

Young

- Perfect eye protection for kids
- Stylish and robust
- In fresh positive colours
- Light weight (19 g) with a perfect fit
- Made in a double injection process
- Utilising high quality materials which are suitable for children
- Includes a microfibre bag for cleaning and protection
- Optical glazing possible

SE1622
Green Grey frame with Smoke lenses

SE16621
Blue Grey frame with Smoke lenses

SE16623
Yellow Grey frame with Smoke lenses

SE16624
Pink Grey frame with Smoke lenses

Junior

- Perfect eye protection for cool teenagers
- Bright vibrant colours
- Light weight (24 g) and a perfect fit
- Made in a double injection process
- Utilising high quality materials which are suitable for children
- Includes a microfibre bag for cleaning and protection
- Optical glazing possible

SE16634
Blue Grey frame with Smoke lenses

SE16631
Shiny Black Grey frame with Smoke lenses

SE16632
Shiny White Pink frame with Smoke lenses

SE16633
Red Purple frame with Smoke lenses

Adult Bifocal Sports Glasses

Special Order

Recently added to the range are some excellent sports glasses with pre glazed bifocal lenses.

These are special order items but delivery is very quick and efficient.

Flash BiFo

- Classic styling lightweight sports glasses with reading lenses (bifocal) with a distinctive look
- Available with lenses in 1.5, 2.0 and 2.5 dpt
- Featuring rubberized temples and nose pads that offer a comfortable and safe hold
- Robust, flexible and shatterproof frame manufactured from TR90 with polycarbonate lenses
- Supplied with a spare lenses in clear polycarbonate
- Microfibre bag for cleaning and case for transportation

SE30401 Matte Silver Frame Bifocal Brown & Clear Lens 1.5dpt
SE30402 Matte Silver Frame Bifocal Brown & Clear Lens 2.0dpt
SE30403 Matte Silver Frame Bifocal Brown & Clear Lens 2.5dpt

Freeride BiFo

- Lightweight (28 g) sports glasses with bifocal reading lenses. Available with lenses in 1.5, 2.0 and 2.5 dpt
- Featuring rubberized nose bridge and temple ends
- A robust, flexible and shatterproof frame manufactured from TR90 and supplied with polycarbonate lenses
- Includes microfibre bag for cleaning and case for transportation

SE30301 Shiny Black frame with Brown Bifocal Lenses 1.5dpt
SE30302 Shiny Black frame with Brown Bifocal Lenses 2.0dpt
SE30303 Shiny Black frame with Brown Bifocal Lenses 2.5dpt

Gardosa Evolution BiFo

- Classically styled sports glasses weighting only 32 g
- Incorporating bifocal reading lenses and adjustable nose pads
- Supplied with lenses in brown and clear in 1.5 2.0 or 2.5 dpt
- Comfortable aerodynamic form
- Rubberized, fluted temples offering firm hold
- Robust, flexible and shatterproof frame material of Grilamid TR90 and polycarbonate lenses

SE30101 Matt Black & Gun Metal Frame, Brown & Clear Bifocal Lenses 1.5 dpt
SE30102 Matt Black & Gun Metal Frame, Brown & Clear Bifocal Lenses 2.0 dpt
SE30103 Matt Black & Gun Metal Frame, Brown & Clear Bifocal Lenses 2.5 dpt

Slide BiFo

- Stylish sports glasses weighting only 28 g with bifocal reading lenses
- Available with lenses in 1.5, 2.0 and 2.5 dpt
- Rubberized, cold adjustable temple ends offering good hold and an adjustable nose bridge for a good fit
- Robust, flexible and shatterproof frame manufactured from Grilamid TR90 and polycarbonate lenses
- Including spare lenses in clear
- Microfibre bag for cleaning and case for transportation

SE30201 Matt Black Frame, Brown & Clear Bifocal Lenses. 1.5 dbt
SE30202 Matt Black Frame, Brown & Clear Bifocal Lenses. 2.0 dbt
SE30203 Matt Black Frame, Brown & Clear Bifocal Lenses. 2.5 dbt

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Overboard 2015

New to the Amba range of brands Overboard offers 100% waterproof bags and cases, combining form with function. High quality, technical and good value for money – waterproof protection at its best. Overboard began life in 2006 on the beaches of Thailand and Australia when friends Dan and Joel decided to quit the rat race and go travelling for six months on an epic beach, boat, surf and scuba holiday. They struggled to keep their technology, valuables and clothes dry and sand free. And that's when it struck them that what they needed was a functional waterproof bag to protection their possessions. And from this first concept was born Overboard, now world leaders in waterproof bags and cases with customers in over seventy countries.

Trust your possessions to the world leaders in waterproof bags and cases. Be it technology, clothing or any sensitive item. The Overboard range of bags and cases will keep everything dry and safe wherever life takes you. Trusted by sports men and women, travellers and professionals the world over, Overboard offers great products and most importantly peace of mind. Offering a substantial range of waterproof solutions in a variety of styles and colours, which are tailored for a wide range of activities and pastimes so there is something for everyone, for everyday for every situation.

Amba is stocking a wide range of Overboard products initially based around our core areas of cycling and outdoor related activities. The range will grow as we gain feedback from our retailers and consumers as to what other products they would like us to carry as stock items.

OB® PRO-SPORTS

Guaranteed to keep your kit and electronics safe and dry. The 100% waterproof pro-sport backpack, duffels and tech cases are feature packed, super tough and with cutting edge design. Constructed for the toughest environments, sports and activities

OB® PRO-LIGHT

Feather light and 100% waterproof backpacks, waist packs and messenger bags, constructed from tough thermoplastic polyurethane (TPU to its friends). Designed for the sportsman when every ounce counts

OB® CLASSIC

Waterproof essentials for any trip or adventure, including dry tubes, backpacks, duffels, bike panniers and more! Straight forward, rugged, colourful, dependable and of course 100% waterproof

OB® PRO-VIS

Be seen day or night, with these tough and hardwearing high visibility 100% waterproof backpacks, duffels and tubes. Packed with design innovation; especially for those with safety, practicality and style in mind.

Waterproof Bags

Overboard manufacture a superb range of waterproof bags in a range of sizes for multi purposes uses. Each is well designed with plenty of features to enhance its usability

Classic Dry Flat Bag 5, 15 & 30 Litre Sizes

These aptly named bags are made of super light nylon rip stop TPU that folds away into a flat little package when not in use. The ingenious Fold Seal System™ and welded seams ensure your valuables will stay dry and dirt free. Made from tough materials it's easy to wipe clean. Includes 2 x D Rings for easy attachment, 1 x instructions/care guide, 1 x Carabiner clip and a removable shoulder strap

- 100% Waterproof small dry sack - Class 3
- Floats safely if dropped in water
- Suitable for quick submersion
- Protects contents from dust, sand, dirt and water
- High frequency welded seams
- Made of nylon rip stop TPU coated super light material
- Easy to store away
- Multi purpose storage application
- Lightweight and compact

5 Litre H: 23cm / 9" W: 27cm / 10.6" Weight: 0.16kg

OB1002B Classic Dry Flat 5 Litre Black
OB1002Y Classic Dry Flat 5 Litre Yellow

15 Litre Height: 35cm / 14" Width: 37cm / 14.6" Weight: 0.22kg

OB1004B Classic Dry Flat 15 Litre Black
OB1004R Classic Dry Flat 15 Litre Red

30 Litre Height: 50cm / 19.7" Width: 37cm / 14.6" Weight: 0.26kg

OB1026B Classic Dry Flat 30 Litre Black
OB1026BL Classic Dry Flat 30 Litre Light Blue

Height: 11cm / 4.5" Width: 15cm / 6" Weight: 0.06kg each

OB1031MP Classic Dry Pouch 1 LitreMulti Pack

Classic Dry Pouch 1 LitreMulti Pack

Constructed from lightweight TPU coated rip stop nylon fabric. The ingenious Fold Seal System™ and welded seams ensure your valuables will stay dry and dirt free. Easily buckles onto your belt or bag loops. Supplied with instructions and care guide. The multi pack contains four bags: Yellow, Red, Blue and Black

- Waterproof TPU lining with stitched and taped seams - Class 2
- Durable, wipe clean and easy to store away
- Protects contents from dirt, sand, dust and water
- Not suitable for full submersion

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Classic Dry Bag Multi Pack 3, 6 & 8 Litres

This waterproof Dry Bag multi pack is ideal for use inside other non waterproof bags to divide your contents and includes a base grab handle to allow for easy removal from your bag. The ingenious Fold Seal System™ and full taped seams ensure your valuables will stay dry and dirt free. Manufactured from feather light Nylon material which allows the bags to fold down compactly. Includes bags in Blue 3 litre, Red 6 litre and Yellow 8 litre. Supplied with 1 x Carabiner clip and instructions/care guide

- Waterproof dry bags - Class 3
- Floats safely if dropped in water
- Suitable for quick submersion
- Base grab handles
- Protects contents from dust, sand, dirt and water
- Full taped seams
- Made of nylon coated super light material
- Easy to store away
- Multi purpose storage application
- Lightweight and compact

Blue 3 Litre Bag Height: 22cm / 8.6" Dia: 12.5cm / 5" Circ: 39.5cm / 20" Weight: 0.027kg
Red 6 Litre Bag Height: 27.5cm / 11" Dia: 15.5cm / 6" Circ: 51cm / 20" Weight: 0.030kg
Yellow 8 Litre Bag Height: 40cm / 15.5" Dia: 24cm / 9.5" Circ: 74cm / 29" Weight: 0.038kg

OB1032MP Classic Dry Bag Multi pack 3, 6 & 8 litre

Backpacks & Duffels

Overboard make an excellent range of backpacks and duffels all of which are well designed, feature packed, colourful, 100% waterproof and durable.

Classic Backpack 20 Litre

Perfect for all types of sports, activities and the bike ride to work! Designed with a unique seamless construction and roll top sealing system, this backpack is 100% waterproof and suitable for quick submersion so you can take it anywhere even out on water. Supplied with 1 x Carabiner clip and instructions/care guide

- Roll top 100% waterproof backpack – Class 3 – IP66
- Floats safely if dropped in water
- Protects contents from dust, sand, dirt and water
- High Frequency welded construction
- Padded shoulder straps and lumbar support
- Ventilated back panel with air flow design
- Comfortable and buoyant light weight straps with ventilation system
- Adjustable sternum strap
- Reflective patches on the front of the bag and both shoulder straps
- 3 x D rings for multiple attachment options
- 1 x Large outer elasticised mesh side pocket
- Top Carry handle

Height: 43cm / 17" Width: 24cm / 9.5"
Depth: 16.5cm / 6.5" Weight: 0.68kg

OB1141B Classic Backpack 20 Litre Black
OB1141Y Classic Backpack 20 Litre Yellow

Pro Vis Backpack 20 Litre

Be seen day or night with the 100% waterproof high visibility Pro-Vis backpack. Perfect for water sports and all types of activities, including cycling. This high visibility, backpack will protect your gear from water, sand, dirt and dust whilst keeping you visible and safe. This backpack is 100% waterproof thanks to the unique seamless construction and a simple roll top sealing system. You can even take it out on water. Stuffed with handy extras and safety features including 1 x Carabiner clip and instruction/care guide

Height: 43cm / 17" Width: 24cm / 9.5" Depth: 16.5cm / 6.5" Weight: 0.95kg

OB1157HVO Pro Vies Backpack 20 litre Hi Vies Orange
OB1157HVY Pro Vies Backpack 20 litre Hi Vies Yellow

Fold Seal System™ (IP66)
High-vis PVC
Large side mesh pockets × 2
LED light attachment loop
Multiple D-rings
High frequency welded seams
Quick release elasticated webbing
Light reflective strips × 2
Internal wet / dry pocket
Super comfortable ventilated back panel
Comfortable and buoyant light-weight straps with ventilation system
Fully adjustable backpack and chest straps
Reflective patches × 2
Whistle buckle

Pro Sports Duffel 40 Litre

This roll top waterproof duffel bag with removable padded backpack straps provides full protection against water, dirt and sand with easy access via a wide mouth opening. It has a large internal wet/dry pocket, external weatherproof front zip pocket and a Velcro mesh pocket. Constructed from tough PVC tarpaulin, it's totally waterproof and suitable for quick submersion. Also includes 1 x Carabiner clip and instructions/care guide

- 100% waterproof holdall with Fold Seal System™ - Class 3 – IP66
- Waterproof front zip pocket – Class 2 – IP65
- Front mesh pocket with Velcro closure
- Quick release loop for quick access to the main compartment
- High frequency welded seams
- Made from tough and hardwearing PVC tarpaulin
- Padded backpack straps
- End mesh vent zip pocket
- End haul handle
- 2 x front and 2 x back light reflective strips
- Top carry handle with Velcro joiner
- Protects contents from dust, sand, dirt and water
- 4 x D rings for multiple attachment options
- Internal wet / dry pocket
- Internal side mesh zip pockets

Height: 23cm / 9.1" Width: 52cm / 20.5"
Depth: 32cm / 12.6" Weight: 1.05kg

OB1153BL Pro Sports Duffel 40 Litre Blue
OB1153Y Pro Sports Duffel 40 Litre Yellow

Pro Sports Duffel 60 Litre

This roll top waterproof duffel bag with removable padded backpack straps provides full protection against water, dirt and sand with easy access via a wide mouth opening. It has a large internal wet/dry pocket, external weatherproof front zip pocket and a Velcro mesh pocket. Constructed from tough PVC tarpaulin, it's totally waterproof and suitable for quick submersion. Also includes 1 x Carabiner clip and instructions/care guide

Height: 27cm / 10.5" Width: 67cm / 26.5" Depth: 32cm / 12.5" Weight: 1.55kg

OB1154B Pro Sports Duffel 60 Litre Black
OB1154R Pro Sports Duffel 60 Litre Red

Pro Vis Duffel 60 Litre

Be seen day or night with the high visibility roll top 100% waterproof duffel bag which offers full protection against water, dirt and sand. Combined with easy access via a wide opening. It has a large internal wet/dry pocket, external weatherproof front zip pocket and a Velcro mesh pocket. Constructed from tough high visibility PVC tarpaulin, it's totally waterproof thanks to the welded seams and suitable for quick submersion. Also includes 1 x Carabiner clip, 1 x shoulder strap and instructions/care guide

- 100% waterproof holdall with Fold Seal System™ - Class 3 – IP66
- Waterproof front zip pocket - Class 2 - IP65
- High visibility PVC tarpaulin so can be seen day or night
- Quick release loop for quick access to the compartment
- High frequency welded seams
- 2 x end haul handles
- 2 x front and 2 x back light reflective strips
- Top carry handle with Velcro joiner
- Protects contents from dust, sand, dirt and water
- D rings for multiple attachment options
- Emergency front whistle buckle
- 4 x heavy duty attachment loops
- Internal wet / dry pocket
- Internal side mesh zip pockets
- Super durable base
- Padded shoulder strap
- Heavy duty and durable materials for rough usage
- LED light attachment loops

Height: 27cm / 10.5" Width: 67cm / 26.5" Depth: 32cm / 12.5" Weight: 1.51kg

OB1149HVO Pro Vis Duffel 60 Litre Hi Vis Orange
OB1149HVY Pro Vis Duffel 60 Litre Hi Vis Yellow

Pro Light Waist Pack 3 Litre

Manufactured in tough PVC tarpaulin the waist pack is an ideal way to carry small valuables safely with you in wet conditions. The handy roll top is designed for easy access and can be sealed tight using the trusted Fold Seal System™. Supplied with a removable dry mesh belt (fits up to 49" waist) so that it can be strapped onto your own belt or pack. Can be used with a range of activities including boating, kayaking, cycling and walking. Supplied with 1 x Carabiner clip and instructions/care guide

- 100% waterproof main compartment - Class 3
- Suitable for quick submersion
- Two way sealing system - top or side
- Made of tough & durable 600D PVC tarpaulin
- Front pocket with water resistant zip closure - Class 2
- Side 1 litre bottle holder, with tuck away zip pocket
- Will float if dropped in water
- Keeps out dust, sand, dirt and water

Height: 13cm / 5"
Width: 19cm / 7.5"
Depth: 7.5cm / 3"
Weight: 0.32kg

OB1049B Pro Light Waist Pack 3 Litre Black
OB1049Y Pro Light Waist Pack 3 Litre Yellow

Classic Bike Panniers

100% waterproof pannier bags – 17 litres each which can be combined in a set of two for a generous 34 litres storage capacity. Featuring an easy to use, well designed durable universal bike rack attachment and easy to use roll top design incorporating Overboards trusted trusty Fold Seal System™ and electronically welded seams. Made from durable PVC tarpaulin, the panniers wipe clean easily after use. Complete with a shaped hard base plate, an outer weatherproof zip pocket, elasticated side loops for lights and reflective front and side patches throughout. Supplied with 1 Carabiner clip and instructions / care guide

- 100% Waterproof cycling panniers – Class 3 – IP66
- Front waterproof zip pocket Class - 2 – IP65
- Sold as singles – can be used as a set of two
- Universal bike rack attachment
- Side elasticated loops for hanging lights
- Protect contents from dust, sand, dirt and water
- High frequency welded seams
- Manufactured from tough and hardwearing 600D PVC tarpaulin
- Durable and wipe clean
- Side and front reflective patches
- Hard base plate

Height: 38cm / 14.9"
Top Width: 30cm / 11.8"
Base Width: 22cm / 8.6"
Depth: 17cm / 6.7"
Weight: 1.09kg

OB1159B Classic Bike Pannier 17 Litre Black
OB1159Y Classic Bike Pannier 17 Litre Yellow

IP66

Waterproof so tight it floats or can handle quick submersions

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Waterproof Cases

Many people carry a smart phone, text pad or some form of electronic device with them when they're out and about. Now thanks to Overboard these products can be kept fully waterproof in easy to use and access cases. You can make and receive calls with your phone while it's sealed in the waterproof bag or even use your tablet whilst relaxing in the pool!

- 100% waterproof cases, Will float most specified devices safely*, Guaranteed submersible to 19ft / 6m
- LENZFLEX back window for ultra clear photos, Transparent front window allowing full use of features and functions
- Make & take phone calls when phone is sealed in waterproof phone pouch, Keeps out dust, sand, dirt and water
- Made of environmentally friendly biodegradable thermoplastic polyurethane (TPU)

***Please note:** Buoyancy Test: Always test your phone for buoyancy before use and be aware that external environmental factors may affect floatation.

Please note: Underwater photography warning: Capacitive touch screens don't work underwater, so you may find it difficult to take photos underwater. To take video underwater, simply start filming above the waterline. This is applicable for all of the Overboard cases used in conjunction with smart phones.

Classic Small Phone Case

Smaller phones are protected from sand, dirt or dust whilst being fully usable inside the case. The transparent front and LENZFLEX back allows for ultra clear photos while the 100% waterproof Slide Seal System™ ensures your phone is fully protected inside the waterproof case.

- Perfect for iPhones, most small phones and handheld GPS

Height: 15.2cm / 6" Width: 7.5cm / 2.95"

OB1008A Classic Small Phone Case Aqua
OB1008B Classic Small Phone Case Black

Classic Smart Phone Case

For full protection for your smart phone from water, sand, dirt and dust use the Overboard smart phone case. The 100% waterproof Slide Seal System™ combined with a transparent front and LENZFLEX back means you can browse, chat, snap or film away while your smart phone is safely sealed in the case. The inclusive welded headphone jack allows you to listen to music and enjoy the hands free functions too. Compatible with the Overboard waterproof headphones for use under water. Includes 1 x Carabiner clip, 1 x Neck Lanyard, 1 x moisture sensitive desiccant sachet and instructions/care guide. Welded 3 pin headphone jack for music and hands free functions.

- Compatible with all smart phones, such as iPhones, Samsung Galaxy, Blackberry Z10 and HTC Desires

Height: 15.2cm / 6" Width: 7.5cm / 2.95"

OB1098B Classic Smart Phone Case Black

Classic Large Phone Case

Even the largest of Smart Phones can be accommodated by this case. The 100% waterproof Slide Seal System™ combined with a transparent front and LENZFLEX back means you can browse, chat or snap away while your phone is safely sealed inside the waterproof pouch. Supplied with 1 x Carabiner clip, 1 x neck lanyard, 1 x moisture sensitive desiccant sachet and instructions/care guide

Height: 17cm / 6.5" Width: 9cm / 3.54"

OB1106 Classic Large Phone Case Black

- Perfect for the largest of SMART Phones

Classic Pro Sports Arm Pack

Such a neat compact and useful product. Use the arm pack to carry your phone, keys, cash and credit cards with you and protect them on the water or during other sports activities, like running or cycling. Incorporating the trusty Slide Seal System™ which keeps the arm pouch 100% waterproof and protects contents from sand, dirt and dust as well. You can wear it like an arm wallet with the comfortable neoprene Velcro sports arm strap, or around your neck with the supplied lanyard. Supplied with 1 x Velcro arm band, 1 x Carabiner clip, 1 x neck lanyard, 1 x moisture sensitive desiccant sachet and instructions/care guide

Height: 13.5cm / 5.3" Width: 13cm / 5"

OB1051 Classic Pro Sports Arm Pack Black

- Perfect for storing your phone, keys, cash and credit cards

Classic Multi Purpose Cases

Overboard have designed three sizes of multi purpose cases for use whenever you need to keep valuables safe and dry, be it on a boat, whilst cycling or just out and about for the day. Each case incorporates the Slide Seal System™ ensuring that it is 100% waterproof. Thanks to a semi opaque Seal Grey front and back, contents are hard to make out, keeping nimble fingered thieves at bay. Keep it dry...stick it in an Overboard Waterproof Case.

The small and medium size cases are supplied with a neck lanyard, 1 x Carabiner clip, 1 x moisture sensitive desiccant sachet and instructions/care guide. The large and jumbo size cases have a fully adjustable shoulder strap, 1 x Carabiner clip, 3 x moisture sensitive desiccant sachets and instructions/care guide

- Floats safely if dropped in water
- Perfect for keys, car immobilisers, credit cards, passports, phones and various sized gadgets

Small H: 12cm / 4.7" W: 7.5cm / 2.95" *OB1067 Classic Small Multi Purpose Case*
Medium H: 17cm / 6.5" W: 9cm / 3.54" *OB1066 Classic Medium Multi Purpose Case*
Large H: 20cm / 8" W: 15cm / 6" *OB1088 Classic Large Multi Purpose Case*
Jumbo H: 25cm / 9.8" W: 20cm / 7.9" *OB1073 Classic Jumbo Multi Purpose Case*

Classic iPad Case

Providing waterproof protection for your iPad whilst offering full use while it's safely sealed away. The clear front of the pouch allows full use of the touch screen functions and the Slide Seal System™ ensures 100% waterproofing. Supplied complete with a fully adjustable shoulder strap for easy transport, 1 x Carabiner clip, 3 x moisture sensitive desiccant sachets and instructions/care guide.

- Back window for iPad 2 rear camera support
- Includes padded back and rear hand loop
- Perfect for iPads and similar sized or smaller tech gadgets, like e-book readers

H: 25cm / 9.8" W: 20cm / 7.9"

OB1086 Classic iPad Case

Classic iPad Mini Case

Providing waterproof protection for your iPad mini whilst offering full use while it's safely sealed away. The clear front of the pouch allows full use of the touch screen functions and the Slide Seal System™ ensures 100% waterproofing. Supplied complete with a fully adjustable shoulder strap for easy transport, 1 x Carabiner clip, 3 x moisture sensitive desiccant sachets and instructions/care guide.

- Padded back for extra protection
- Large back window for crystal clear photo & videos
- Includes fully adjustable shoulder strap for easy transportation

H: 21cm / 8.2" W: 15cm / 6"

OB1083 Classic iPad Mini Case

Classic Small Phone Bike Mount

New for 2015 the bike mount is a great idea for all cyclists who like to have their phone or hand held GPS devices to hand. Combining the small phone case with a neat and sturdy universal handlebar bracket. Incorporating a quick click lock and release system and an adjustable multi directional ball joint for the perfect viewing angle. Can also be attached to any suitable rail. Supplied complete with 1 x handlebar bracket, 1 x Carabiner clip, 1 x neck lanyard, 1 x moisture sensitive desiccant sachet and instructions/care guide

- Compatible with all iPhones, Blackberry phones and HTC Desires
- Perfect for iPhones, most small phones and handheld GPS

H: 15.2cm / 6" W: 7.5cm / 2.95"

OB1156 Classic Small Phone Bike Mount

AMBA www.amba-marketing.com • sales 01392 829903 • email info@amba-marketing.com

Nantucket Bike Baskets

The inspiration behind the Nantucket Bike Baskets was a request for high quality durable yet beautiful baskets made from natural materials including wicker and rattan. With over thirty years experience in the basket market Nantucket were able to produce a wonderful range of high quality unique baskets within a short space of time. Each basket is crafted with passion and attention to detail and has been designed by the team at NBBC.

The baskets are woven by at team of skilled craftsmen to be aesthetically pleasing yet functional at the same time. All of the raw materials have been hand selected for strength and durability. Bicycle baskets are used on a daily basis and thus need to be woven in a tougher stronger method than decorative baskets. To enhance their durability Nantucket baskets have a rolled rim weave which ensures that the baskets will hold up to the demands of every day bicycle use. The rolled rims mean that you do not see a beginning or an end to the weave, thus allowing the rim to stay intact rather than unravelling which can happen with standard weaving only.

We have started with a small selection of baskets made by NBBC including some adult and children's models. Most of the baskets are designed with leather straps to attach to your handlebars and some have sturdy hooks instead.

Cisco Collection

The Cisco Collection is made from the highest quality lacak rattan and is thickly woven. Rattan is undoubtedly the strongest and most durable natural fibre available. The Cisco range is classically designed and will give excellent service for many years to come.
Maximum weight limit for the Cisco baskets is 13 lbs or 5.9 kg.

Cisco Rattan Adult Oval Basket With Leather Straps

NBB004AO Adult Oval Basket With Leather Straps

A classically elegant oval basket with leather straps to fit onto your handlebars.
Dimensions: L x W x H : 14" x 11" x 9.5" or 35.5 x 28 x 23 cm

Cisco Rattan Adult Rectangle Basket With Leather Straps

NBB005AR Adult Rectangle Basket With Leather Straps

A classic rectangular shaped basket with leather straps for the handlebars
Dimensions: L x W x H : 13" x 10.75" x 9.5" or 33 x 27 x 24 cm

Cisco Rattan Adult Classic Basket With Leather Straps

NBB006AC Adult Classic Basket With Leather Straps

The classically tapered basket with leather straps for the handlebars
Dimensions: L x W x H : 11.5" x 9.5" x 9.5" or 33 x 27.5 x 24 cm

Cisco Rattan Adult D Shape Basket With Leather Straps

NBB005AD Adult D Shape Basket With Leather Straps

D shaped basket which narrows to the base with leather straps for the handlebars
Dimensions: L x W x H : 14.5" x 10.5" x 9.5" or 37 x 26.5 x 24 cm

Cisco Rattan Adult Rectangle Basket With Hooks

NBB017RH Adult Rectangle Basket With Hooks

Classic larger rectangle shape with metal hooks to hang from the handlebar.
Dimensions: L x W x H : 16" x 12" x 10.25" or 41 x 30.5 x 26 cm

Tuckernuck Collection

The Tuckernuck Collection is made from the toughest kubu rattan that is available to create high quality durable baskets. With a rustic feel to this range the Tuckernucks will look great on modern as well as retro styled bicycles. Maximum weight limit for the Tuckernuck baskets is 13 lbs or 5.9 kg.

Tuckernuck Rattan Adult Oval Basket With Leather Straps

NBB001AO Adult Oval Basket With Leather Straps
A classically elegant oval basket with leather straps to fit onto your handlebars.
Dimensions: L x W x H : 14" x 11" x 9.5" or 35.5 x 28 x 23 cm

Tuckernuck Rattan Adult Rectangle Basket With Leather Straps

NBB002AR Adult Rectangle Basket With Leather Straps
Classic rectangle basket with leather straps to fit onto your handlebars.
Dimensions: L x W x H : 13" x 10.75" x 9.5" or 33 x 27.5 x 24 cm

Tuckernuck Rattan Adult Basket Classic With Leather Straps

NBB003AC Adult Classic Basket With Leather Straps
Classic tapered basket with leather straps to fit onto your handlebars.
Dimensions: L x W x H : 11.5" x 9.5" x 9.5" or 29 x 24 x 24 cm

Tuckernuck Rattan Adult Large Rectangle Basket With Hooks

NBB020RH Adult Large Rectangle Basket With Hooks
Larger rectangle basket with hooks to fit onto your handlebars.
Dimensions: L x W x H : 16" x 12" x 10.25" or 40.5 x 5 x 26 cm

Cruiser Collection

The Cruiser Collection was designed with the classic cruiser bicycle in mind. These rattan baskets are highly functional and work well with many styles of cruiser and other bicycles. Perfect for a trip to the beach or the park! Maximum weight limit for the Cruiser baskets is 13 lbs or 5.9 kg.

Cruiser Adult D Shape Basket With Straps

NBB003ADW Adult D Shape Basket With Straps. White
A durable, stylish rattan basket. The white weave will complement many bicycles.
Dimensions: L x W x H : 14.5" x 10.5" x 9.5" or 36 x 26 x 24 cm

Nantucket Children's Collection

We've put together a small but lovely range of children's rattan baskets with some lovely bright colours which are made from durable rattan with leather straps for the handlebar. Maximum weight limit for all the children's baskets is 8 lbs or 3.6 kg,

Cisco Childs D Shape Basket With Leather Straps

NBB005CD Cisco Childs D Shape Basket With Leather Straps
With the same high quality lacak rattan as the adult model this children's basket is scaled to measure and will look very stylish in situ.
Dimensions: L x W x H : 10" x 7.5" x 7.5" or 25.5 x 19 x 19 cm

Gull & Buoy Collection

Add some fun to a child's bicycle with these brightly painted D Shape rattan baskets. Designed with sturdy leather straps to fit onto the handlebars.

Gull & Buoy Child's Basket With Straps Pink

NBB010CPK Child's Basket Pink
A lovely bright Pink rattan child's basket with straps for the handlebar.
Dimensions: L x W x H : 10" x 7.5" x 7.5" or 37 x 27 x 24 cm

Gull & Buoy Child's Basket With Straps Royal Blue

NBB013CRB Child's Basket Royal Blue
A super Royal Blue rattan child's basket with straps for the handlebar.
Dimensions: L x W x H : 10" x 7.5" x 7.5" or 37 x 27 x 24 cm

Cruiser Child's Basket With Straps White

NBB003CDW Child's Basket White
A classic child's rattan basket with straps for the handlebar. White
Dimensions: L x W x H : 10" x 7.5" x 7.5" or 25 x 19 x 19 cm

Hebie

Hebie has been manufacturing top quality bicycle accessories for over fifty years providing simple and elegant solutions that make day to day cycling that little bit easier. Only Hebie makes a bike complete!

Chainglider

This unique product designed initially for hub geared cycles fits around the chain and sprockets requiring no fixing to the frame. The lightweight, low friction housing simply 'floats' on the drive chain. It creates very little noise during use. The chain will remain better lubricated all year round increasing the service life of your components as well as keeping clothing clean. The Chainglider requires no tools to remove if required. Due to the exact fitting of the system each model fits a specific range of ring and sprocket sizes.

HBFCR38 For Rohloff. 38T ring, 15-17T sprocket

HBFCR42 For Rohloff. 42T ring, 15-17T sprocket

HBFC38 Floating guard for 38T ring, 18-22T sprocket

HBFC42 Floating guard for 42-44T ring, 19-20T sprocket

Chainglider Open

The success of the Chainglider has prompted the development of the new 'Open' model which fits to single ring derailleur/hub gear bicycles.

HB359-38 Open for 38T ring

HB359-42 Open for 42T ring

Triple Chainset Chainguards

Many bicycles within the UK have triple ring derailleur systems with no provision for a Chainguard. The solution is the 360 model for chainsets with a 42T large ring and the 368 model for 48T rings.
Universal fittings are included.

HB360 Full chainguard for triple chainsets up to 42T ring

HB368 Full chainguard for triple chainsets up to 48T ring

Aluminium Chainguards

An elegant chain guard made from a strip of polished aluminum attached to a bracket easily fitted behind the bottom bracket cup.

HB392 Aluminum chain guard for single ring system 42T

HB398 Aluminum chain guard for single ring system 48T

The chainguards shown here are compatible with the new Shimano STEPS system as well as standard set ups. The STEPS compatible brackets are available separately.

Chainguard 38T Screw In Fit

For hub gears or single chainrings and STEPS compatible

HB0342 Chainguard Scew In STEPS Compatible 38T

Chainguard 38T Plug In Fit

For single chainrings and STEPS compatible

HB0395 Chainguard Plug STEPS Compatible 38T

Shimano STEPS Brackets

The chainguard system for Shimano STEPS consists of a special retainer ring and a chain guard from the Hebie range. Available in two sizes – 180mm for 38T and 210mm for 44T chainrings. Sutiable for both screw in and plug in chainguards.

HBSS38 Shimano STEPS bracket 180mm for 38T

HBSS44 Shimano STEPS bracket 210mm for 44T

Chainguard 44T Screw In Fit

For derailleurs and STEPS compatible

HB360 Chainguard Screw In STEPS Compatible 44T

Hebie Prop Stands

Hebie manufacture a quality range of prop stands to fit many bicycles including heavily laden touring bikes and many electric bicycles.

Bipod Centre Stand

0605: Black steel
Load capacity 60kg

HBP1 Bipod Centre Stand

Bipod Bigfoot Centre Stand

0690C NLE: Alloy/resin. Load capacity 60kg

HBP2 Bipod Bigfoot Centre Stand

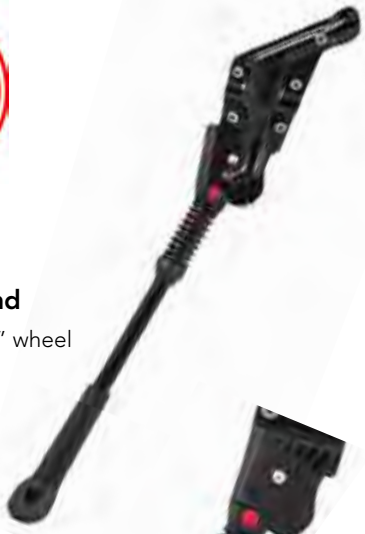
Bipod Touring Centre Stand

690 NLE: Alloy/resin.
Load capacity 60kg

HBP3 Bipod Touring Centre Stand

Heavy Duty Bipod Stand

0608: Wide standing kick stand
Load capacity 80kg
HBP6 Heavy Duty Bipod Stand

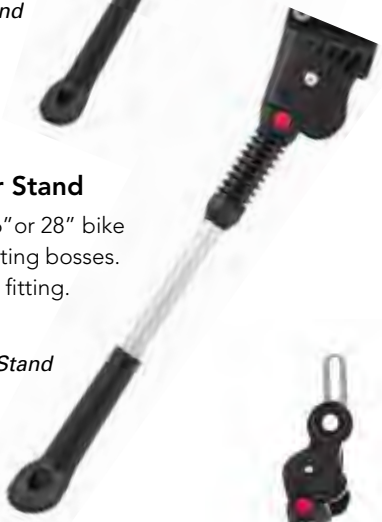


Heavy Duty Adjustable Rear Stand

0611: Chain/seat stay fitting for 26" – 28" wheel
Load capacity 25kg
HRS2 Heavy Duty Adjustable Rear Stand

Alloy Centre Stand

636: Adjustable. Load capacity 25kg
HCS1 Alloy Centre Stand



Direct Fit KSDA 40mm Rear Stand

This adjustable stand will fit any 26"or 28" bike fitted with the KSA 40mm direct fitting bosses. Merida hybrids commonly use this fitting.
Load capacity 20kg
HRS3 Direct Fit KSDA 40mm Rear Stand

Axle Fitting Rear Stand

0616E NLE: Fits to the rear axle on cycles with a chain stay diameter of up to 25mm. Adjustable for 26" to 28" wheel sizes.
Load capacity 25kg
HRS4 Axle Fitting Rear Stand

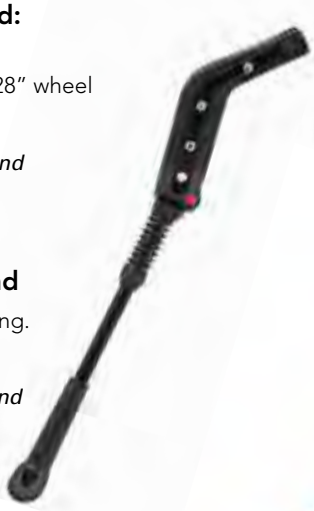
Axle Fitting Adjustable Rear Stand

0618E NLE: Fits to the rear axle on cycles with a chain stay diameter of up to 25mm. For fixed and Q/R hubs. Adjustable for 26" to 28" wheel sizes. Load capacity 25kg

HRS5 Axle Fitting Adjustable Rear Stand

Steel Centre Stand: 24" - 28" Wheel

0630: Steel for 24" – 28" wheel
Load capacity 40kg
HCS2 Steel Centre Stand



Adjustable Rear Stand

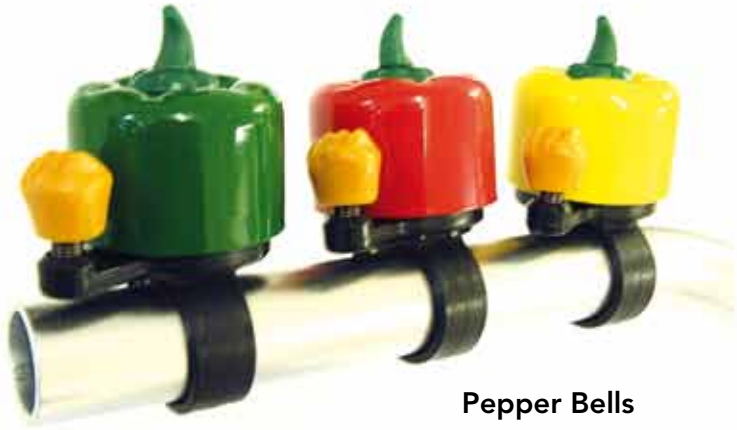
0671: Chain/seat stay fitting.
Load capacity 25kg
HRS1 Adjustable Rear Stand

Steering Stabiliser

The steering stabiliser is an ideal partner for the centre stands or cycles with a basket fitted as it greatly increases the stability when on the stand without affecting the handling of the bike.

HBP4 Steering Stabiliser for bipods
HBP5 Steering Stabiliser for 696 model

Trimobil Bells



Pepper Bells

BELL31R Pepper Bell. Red
BELL31Y Pepper Bell. Yellow
BELL31G Pepper Bell. Green
BELL31R Pepper Bell. Red

Taj Mahal Bell

BELL32

Builder Bells

BELL34R Builder bell. Red
BELL34Y Builder bell. Yellow

Turtle Bell

BELL33

Ladybird Bells

BELL35R Ladybird Bell. Red
BELL35Y Ladybird Bell. Yellow
BELL35G Ladybird Bell. Green

Coffeepot Bells

BELL37

Teapot Bell

BELL36

This is just a small selection from the wide range of bells which can be seen on the AMBA Website **www.amba-marketing.com**

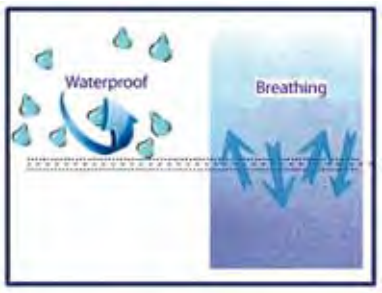
AMBA www.amba-marketing.com • sales 01392 829903 • email info@amba-marketing.com

Happy Rainy Days

We are so very proud to bring Happy Rainy Days to the Amba collection. This wonderful range of ladies rainwear is not only stylish, well designed and rain proof it also offers multi purpose functionality. Cleverly incorporated are technical and practical design features which allow ladies to ride their bicycle wearing a Happy Rainy Days garment and to use the garment day to day: going to work, the school run or out for a walk with the family etc.

Technical Summary

Bright cheerful and elegant the collection is designed by Happy Rainy Days themselves in Holland whilst garments are manufactured to the highest standard in China. The fabrics used will keep you dry during heavy downpours and prolonged rain showers. For those technically minded each square centimetre of fabric stops a column of 5000 mms of water. All seams are glued to ensure water cannot get through. The 100% nylon fabrics are also breathable with a vapour permeability of 5000 grams/m^2 which means you can enjoy serious cycling or hiking without undue perspiring caused by poor fabrics. The rainwear has a 100% cotton lining which absorbs any physical perspiration. Nylon is is more environmentally friendly compared to pvc based fabrics. Finally each garment has an additional coating making the garment guaranteed rainproof. The same coating makes the material windproof to prevent cooling off and breathing to prevent the accumulation of heat.



Collections And Designs

Happy Rainy Days always offers a range of rainwear including long and short coats, rain capes, hats, with summer and winter options. The plain colours stay through out the year but the patterns offered evolve each spring and autumn. Spring/Summer collection is available from March and the Autumn/Winter collection from September.

The full Happy Rainy Days Collection in all patterns and colours can be seen on the AMBA Website **www.amba-marketing.com**

Trench Coat

The must have for every lady. Designed with an adjustable, detachable hood, waist band, slit pockets, an extra fastener at the collar and adjustable sleeve end. Can be worn almost all year around. A padded winter version is also available.

ODETTE

NANCY

Jacket

A stylish feminine cut jacket which is perfect for the active lady who likes to go out in all weather conditions. It has an extra nylon wind cuff with an elasticated end to prevent water ingress. It is nipped in at the waist with an elasticated band at the back to accentuate the styling. The pockets have zips.

NICOLE

PETRA

Short Coat

Classically styled feminine short coat with button details on pockets, sleeves and front closure to match. It has an adjustable, detachable hood.

YASMINE

LUCINE

Coat

For autumn/winter this longer classically styled coat comes with an adjustable, detachable hood, secure pockets, wind cuffs inside the sleeves, a shaped 'pull in' waist cord and front closure with zip and buttons. A padded winter version is also available.

PETRA

CLAUDE

Parka

The parka reaches to just above the knees and is a little bit shorter at the front than than the back. Creating a lovely combination of practicality with feminine design. It has buttoned pockets, wind cuffs inside the sleeves and a detachable, adjustable hood. It also features a zipped inner pocket and an inside 'pull in' waist cord. There is a padded winter version as well.

CLAUDE

KIM

Long Raincoat

This elegant and charming long raincoat reaches to the ankles. Because of the length and the additional section of fabric, this long raincoat is ideal for ladies who like to cycling and or walk and keeps their legs dry without rain trousers. Its also ideal for ladies who wear skirts. The additional piece of fabric gives you extra room to move while keeping your legs dry. This piece can also be hidden inside the long raincoat. It has wind cuffs inside the sleeves, an adjustable, detachable hood and pocket with zips.

PETRA

NICOLE

Cape

This wonderful one size fits all raincape fits all. Tie the ribbon of the raincape around your waist to keep it secure. By holding the wristbands over the handlebars you can keep your hands and legs dry. It can be stored in the large storage pocket on the front of the cape.

NICOLE

PETRA

HAPPY RAINY DAYS

Amba Accessories

Amba Stainless Bell

High quality stainless disc steel bell with a beautiful ring tone for the discerning cyclist.

BELL27 Amba Bell

Brass Domed Bell

Brass domed bell with a matching brass pinger.

BELL30 Brass Domed Bell

Ding Dong Chrome

Traditional twin dome bell with the satisfying 'ding dong' tone that gives it its name.

BELL13 Ding Dong Bell 80mm Chrome
BELL14 Ding Dong Bell 80mm Black
BELL15 Ding Dong Bell 60mm Chrome
BELL15A Ding Dong Bell 60mm

Touring Mudflap

MUD1 Fits with bendable metal strip

Touring Mudflap

MUD2 Clips to mudguard stays

Sport Mudflap

MUD3 Rivets to mudguard

Tyre Mate

This tool will aid those who have problems in fitting tyres to rims. Used by experienced mechanics as well as the casual cyclist it can save you pinching the tube or breaking your tyre levers. Invaluable for those with tight racing tyres.

KSTBJ Tyre Mate

www.amba-marketing.com

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